

SEQUENCE LISTING

<110> Xu, Jiangchun
 Lodes, Michael J.
 Secrist, Heather
 Benson, Darin R.
 Meagher, Madeleine Joy
 Stolk, John A.
 Wang, Tongtong
 Jiang, Yuqiu
 Smith, Carole L.
 King, Gordon E.
 Wang, Aijun
 Clapper, Jonathan D.
 Skeiky, Yasir A. W.
 Fanger, Gary R.
 Vedvick Thomas S.
 Carter, Darrick

<120> COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
 OF COLON CANCER AND METHODS FOR THEIR USE

<130> 210121.471C14

<140> US

<141> 2001-12-19

<160> 1129

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<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<211> 332

<212> DNA

<213> Homo sapiens

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 gtsrattcsa catttgggrt akrtymtctc tsgaagysam tgtcakgcag tgrcayccwr 180
 gkktcwgcw t gcwgtgrgtt amcakcmwtr ywtagkgsgm ayatrattta ramrgtayak 240
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<211> 401

<212> DNA

<213> Homo sapiens

<400> 7

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<210> 8

<211> 1151

<212> DNA

<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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caggggaaaag tgaaaaacaa 560

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<210> 13
<211> 150
<212> DNA
<213> Homo sapiens

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<400> 13
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caaaataaaa gtaactgttt acgttggtga 150

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<210> 14
<211> 403
<212> DNA
<213> Homo sapiens

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<400> 14
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<213> Homo sapiens

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<220>
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 <223> n = A,T,C or G

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 ttctgagctg cctttggaag gaagttatga ggtagaagat tctactgact tttagtaagg 600
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 tgccangtnc nanntaatnc atanaaag 688

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 <211> 408
 <212> DNA
 <213> Homo sapiens

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 gataactcaac tcaaatattt tgaaaaacag tttgaactgt cagaacaaac aaaattacca 360
 atgtttcttc attgtccgaa actcacatgc tgaatttttg gacataat 408

<210> 17
 <211> 407
 <212> DNA
 <213> Homo sapiens

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 ccagtgggct gatgctggga cccttaggat ggggctccca gctcctttct cctgtgaatg 300
 gaggcagaag acctccaata aagtgccttc tgggcttttt ctaacctttg tcttagctac 360
 ctgtgtactg aaatttgggc ctttggatcg aatatggtca agagggtt 407

<210> 18
 <211> 405
 <212> DNA
 <213> Homo sapiens

<400> 18
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gtattaaagc agcggcagcc gctgcacgca gacatgaggg ctaggttaaa acagtaagat 120
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ccacgctaac catgcctagg aaggaaagga gttattgttt tgtagaaagg tgctgggggt 240
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ccgagatagg taacagatga ggaagaaatt tgggcttgat tgaagtaatg ggggctgtct 360
gtgaagcttt gcagcagtac agcctaggta atttgctgag cctaa 405

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<210> 19
<211> 401
<212> DNA
<213> Homo sapiens

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<400> 19
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gctgcttcaa gcgggattag gggcggcgtg ggagcctaga gtgggagaga ttaagctgaa 180
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<210> 20
<211> 331
<212> DNA
<213> Homo sapiens

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<400> 20
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tcccgatttt tgctctccag cctccggttc tcggctctcca ggctcctcac tctgtccagg 240
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attcctgcc aacccccggc tatcccggtg g 331

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<210> 21
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<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 257
<223> n = A,T,C or G

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agcttatgtc cagaccttct ggatccttgg cagtcacatt gccacttta gtgcctatag 180
ctacatctct actgactttc gcttggaata cgtgttgga aaattgaggt gcttcattca 240
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<210> 22
<211> 360

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 317
<223> n = A,T,C or G

<400> 22
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agcacttgaa actgactctt cccctccacc atatagtagt attactgggtg gaagtaccta 240
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<210> 23
<211> 251
<212> DNA
<213> Homo sapiens

<400> 23
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aataatgatg g 251

<210> 24
<211> 421
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 182
<223> n = A,T,C or G

<400> 24
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agaaactgtt aaacctaaact gtccgaattg acatcatgga raaaggatac catttcttac 360
actgaactgg acttcagact gatcaaggta gaagtgaagg agatggaaaa actggtcata 420
c 421

<210> 25
<211> 381
<212> DNA
<213> Homo sapiens

<222> 184, 208, 251, 263, 284, 293, 296, 337, 395

<223> n = A,T,C or G

<400> 35

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gggtaaagcc tttggcgccc tttccgcaat ggcacatcag cagtaaaagt ggtaccaata 180
gcangaacag aaagggcaaa atcatgancg caattgctgc gggteccaag cccacatagg 240
aatcatgctg ngcttccctg canccgctgc catgcaagac actnacaaac tnggantgta 300
aggacctgct tttcaggaca actaaaaccc tgattgnctg aaatcaggaa ctgaatttca 360
cttctcccaa gctttttctc actttggtgc aacancacac t 401
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<210> 36

<211> 401

<212> DNA

<213> Homo sapiens

<400> 36

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cctgctagaa tcaactgccgc tgtgctttcg tggaaatgac agttccttgt tttttttgtt 60
tctgtttttg ttttacatta gtcattggac cacagccatt caggaactac cccctgcccc 120
acaaagaaat gaacagttgt agggagaccc agcagcacct ttcctccaca caccttcatt 180
ttgaagttcg ggtttttgtg ttaagttaat ctgtacattc tgtttgccat tgttacttgt 240
actatacatc tgtatatagt gtacggcaaa agagtattaa tccactatct ctagtgtctg 300
actttaaatc agtacagtac ctgtacctgc acggtcaccc gctccgtgtg tcgccctata 360
ttgagggctc aagctttccc ttgttttttg aaaggggttt a 401
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<210> 37

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2, 3, 6, 9, 16, 18, 19, 23, 30, 33, 48, 56, 59, 62, 73, 75,
81, 85, 88, 89, 114, 116, 121, 137, 149, 158, 161, 168,
183, 192, 232, 251, 308, 345, 348, 354, 363, 369, 391, 397,
400, 401

<223> n = A,T,C or G

<400> 37

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antaagcatg gancntgatc ntttnctnng cactccttta cgacacggaa acangnatca 120
ncatgatggt accaganacc ttatcaccna cgcgcacnga nctgactnat tccaaagagt 180
tgnggttacg gncatccggt cattgctcgt gccattgct gcagggctga tnctactggg 240
gcttattatg ntggccctga ggatgctcca caatgaatat aagcatgctg catgatcagc 300
ggcaacanat gctctgccgt ttgcactaca tctttcacgg acacnatntc gaanacgggc 360
acnttgcana gttagacttg gaatgcatgg ngccggncan n 401
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<210> 38

<211> 401

<212> DNA

<213> Homo sapiens

<400> 38

<222> 212, 224

<223> n = A,T,C or G

<400> 45

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gctacagtgg gaacaggctc aggactatct caagagattt tatctctatg actcagaaac 120
aaaaaatgcc aacagtttag aagccaaact caaggagatg caaaaaattc tttggcctac 180
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tcacctacag gatcgtatca tatactcgag acttaccgca tattacagtg gatcgattag 360
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<210> 46

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 70, 182

<223> n = A,T,C or G

<400> 46

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catgattcan agatactgcc ttctctctct ctgggatttt atgtgtttct gatagtgaat 120
tggtgatgta tttgctactt tgcttctttt ctctttcaag acttgatcat tttatatgct 180
gn ttggagaa aaaaagaact tttggtagca aggaggtttc aagaaatgat tttggatttt 240
ctgctgcgga atttctcggc acctacctgt agtagggggc acttggtttg gttgcagagt 300
aagaaggtgg aagaatgagc tgtacttggg taagcagttg aaaccttttt tgagcaggat 360
ctgtaaaagc ataattgaat ttgtttcacc cccgtggatt c 401
```

<210> 47

<211> 401

<212> DNA

<213> Homo sapiens

<400> 47

```
ggtctgcagc aatgcacttc aaccatacat actgcttcca ctagctaata ccaaatgcag 60
gttctcagat ccagacaaat ggaggaaaag aacattttatg cttccgtttc agaaagccaa 120
gtcgtagttt tggcccttcc tttctctaaa gtttattccc aaaaacagggt agcattcctg 180
attgggcaga gaagaggata ttttcagccc acatctgctg caggtatgtc attttctccc 240
atcttcactg tgactagtaa agatctcacc acttctcttt ggaatttcca actttgcttg 300
tgattgaatg tcaactcgtg aatttgtatt atgtcagatc acttggcatt gctcttccat 360
atgcatcaag ttgccaggca ctaaacccaa tgttcatgaa c 401
```

<210> 48

<211> 430

<212> DNA

<213> Homo sapiens

<400> 48

```
acataacttg taaacttttt ctgcttgggg gctgtaacag acagaagagt aaagactaca 60
aggattttct gaagatgctt caatgaaaat catcatttcc tctttagtca tcccaagtct 120
tggtttgaaa aacttgggca tggacttata cagacctga accaccactg acttatcatt 180
```


<220>
 <221> misc_feature
 <222> 168, 197, 202, 209, 218, 257, 271, 287
 <223> n = A,T,C or G

<400> 52
 ctcacatcct ggggtccggct gtagagctgc accatgggtgc tgagcgcccc ctccagctcc 60
 ttgtagatgt aaaggacggc gaaggagctg tagtctgtgt ccacgatgcg cactgccagg 120
 tagcccaagg cggggactct gaagttgtcc ctcgagagccc accttcangt actcgggcat 180
 ccacctgggt acagccnttc gncctcggna actccatntg gactttacag gccgcctcc 240
 tctgtgggcc tgatggncct tgcaggacat nggaacacgg gagctcnctt t 291

<210> 53
 <211> 95
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37, 60, 73, 76, 92
 <223> n = A,T,C or G

<400> 53
 gtctgtgcag tttctgacac ttgttggtga acatggntaa atacaatggg tategctgan 60
 cactaagttg tanaanttaa caaatgtgct gnttg 95

<210> 54
 <211> 66
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 8, 11, 13, 26, 27, 35, 38, 43, 47, 57
 <223> n = A,T,C or G

<400> 54
 cctnaatnat ntnaatggtg tcaatnnccc tgaangangg gancggngga agccggnttt 60
 gtccgg 66

<210> 55
 <211> 265
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 25, 223, 241, 254, 259
 <223> n = A,T,C or G

<400> 55
 atctttcttc tcagtgcctt ggcntgttg agtctatctg gtaacactgg agctgactcc 60
 ctgggaagag aggccaaatg ttacaatgaa cttaatggat gcaccaagat atatgacct 120

agctgaacca cagacgggtt gctgatacct gcccgggcgg ccgctcgaa 229

<210> 60
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 60
 tcgagcggcc gcccgggcag gtcctctaaa gatcaaaaca cccctgtcgt ccaccctcct 60
 ccactccag ggaagctgtg gtcattggtg tgtggtgaac atcagcaaac cgtctgtggt 120
 tcagctcaac tggagagggt tttcttatct atatggtgct tgggtagggg attactctcc 180
 ccagcatcca aacaaaggac tgtattgggt ggcgccattg aatacagatg ggaaactgtt 240
 ggagtattat aaactggtac aacacactgg atgatttgct attgtatata aatgctcgag 300
 aattgcggat cacctatgga cctcggccgc gaccacgctg 340

<210> 61
 <211> 179
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 16, 76, 96, 110, 112, 122, 138, 140, 143, 155, 161, 163,
 175, 178
 <223> n = A,T,C or G

<400> 61
 tttttgtgac ggacgnnttg agtacatgtc ccaggatcac atccagcagc tagagtggct 60
 gggacaagct ggcgngggcc aagcactgtt gaaacnatag ggtctgggn gnactcgggt 120
 tnaagtgggt ggtccgantn ttnataacct tgtcngaacc nancatctcg gttgncang 179

<210> 62
 <211> 78
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 51, 72
 <223> n = A,T,C or G

<400> 62
 agggcggttcg taacgggaat gccgaagcgt gggaaaaagg gagcgggtggc nggaagacgg 60
 ggatgagctt angacaga 78

<210> 63
 <211> 410
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 48, 95, 182, 290, 314, 350, 365, 380
 <223> n = A,T,C or G

<210> 71
 <211> 428
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 281, 308, 364, 376, 383, 397, 413, 420
 <223> n = A,T,C or G

<400> 71
 caggagtatt ttgtagaaaa gccagaagag cattagtaga tgtatggaaa tatacggtag 60
 ggcacacgct gacagtactt ttcccaagcc acgccgtatt tcttcttaca gtggtactcg 120
 tcacgagctt ctccgtggac aagcaacatg gtgaaataaa ttatgtagaa ataaggcaga 180
 atgtggttaa aaaccacatgg gagggaccac gccaaaggcca tgatgagatc acccaagtaa 240
 ttgggggtggc gaacaaaagcc ccaccatcca gaaactagaa naatttttcc cgttgaaata 300
 tgaatggnnt ttaaatgtgc aagcttttga tcaactggaa ttttcccgaa tgcctttttc 360
 tganaattgc accttnggaa gantccttac cccaagnttc agaccattat ttnaaaagcn 420
 ttggaact 428

<210> 72
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 218, 236, 247, 256
 <223> n = A,T,C or G

<400> 72
 gaataaagag cttactggaa tccagcaggg ttttctgccc aaggatttgc aagctgaagc 60
 tctctgcaaa cttgatagga gagtaaaaag ccacaataga gcagtttatg aagatcttgg 120
 aggagattga cacacttgat cctgccagaa aatttcaaag acagtagatt gaaaaggaaa 180
 ggctttggta aaaaaagggt caggcattcc tagccgantg tgacacagtg gagcanaaca 240
 tctgcangag actgancggc tgca 264

<210> 73
 <211> 442
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 249, 283, 313, 385, 390, 407
 <223> n = A,T,C or G

<400> 73
 ggcgaaatccg gggggtatca gagccatcag aaccgccacc atgacggtgg gcaagagcag 60
 caagatgctg cagcatattg attacaggat gaggtgcatc ctgcaggacg gccggatctt 120
 cattggcacc ttcaaggctt ttgacaagca catgaatttg atcctctgtg actgtgatga 180
 gttcagaaaag atcaagccaa agaacttcaa acaagcagaa agggaagaga agcgagtcct 240
 cggctctggng ctgctgcca gggagaatct ggtctcaatg acngtagaag gaccttcttc 300

```

caaagatact ggnattgctc gagttccact tgetggaact tcccggggcc caaggatcgc 360
aaggcttctg gcaaaagaaa tccanacttn ggccggggacc acctaancca attcacacac 420
tggcgggcgt actagtggat cc 442

```

```

<210> 74
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 167, 268
<223> n = A,T,C or G

```

```

<400> 74
ggtagcagcg tctccagagc ctgatctggg gtcccagata cccaggcagc agcagccctg 60
gaggtaaagg gcaagctccc caatgtgagg ggagacccca ttcctgggtca gccaggcttt 120
cagaggagat agcaggctcga gggagccaac gaagaagaga ctgccancag gggaaggact 180
gtcccgccaa ggacagaact gattcagggg ggtcaatgct cctctagaga agagccacac 240
agaactgggg ggtccaggaa ccatgaanct tggctgtggg ctaaggagcc aggaatctgg 300
acagtgttct gggtcatacc aggattctgg aattgta 337

```

```

<210> 75
<211> 588
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 444, 495, 531, 562
<223> n = A,T,C or G

```

```

<400> 75
catgatgagt tctgagctac ggaggaaccc tcatttcctc aaaagtaatt tattttttaca 60
gcttctggtt tcacatgaaa ttgtttgogc tactgagact gttactacaa acttttttaag 120
acatgaaaag gcgtaatgaa aaccatcccg tccccattcc tctcctctc tgagggactg 180
gagggaagcc gtgcttctga ggaacaactc taattagtac acttgtgttt gtagattttac 240
actttgtatt atgtattaac atggcgtggt tattttttgta tttttctctg gttgggagta 300
tgatatgaag gatcaagatc ctcaactcac acatgtagac aaacattagc tctttactct 360
ttctcaaccc cttttatgat ttttaataatt ctcaactaac taattttgta agcctgagat 420
caataagaaa tgttcaggag agangaaaga aaaaaaatat atgttcccca tttatatatta 480
gagagagacc cttantcttg cctgcaaaaa gtccaccttt catagtagta ngggccacat 540
attacattca gttgctatag gncagcaactg aactgcatta cctgggca 588

```

```

<210> 76
<211> 196
<212> DNA
<213> Homo sapiens

```

```

<400> 76
gcggtatcac agcctggccc ccatgtacta tcggggggcc caggctgcc a tctgtgtcta 60
tgacatcacc aacacagata cttttgcacg ggccaagaac tgggtgaagg agctacagag 120
gcaggccagc cccaacatcg tcattgcact cgcgggtaac aaggcagacc tggacctgcc 180
cggcgggccg ctcgaa 196

```

<210> 77
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 196, 335, 409, 410, 417, 442, 447, 450
 <223> n = A,T,C or G

<400> 77
 agtagagatg gggtttcact gtgttaacca ggatgggtctt gatctcctgg cctcgtgatc 60
 tgcccgccctc ggccctcccaa agtggttgga ttacaggcgt gaaccaccgc acccggccag 120
 aaatgttagt ttttccctat tctctctoct ttttcttatt atatacttgg tcaaccagac 180
 agccatccta ccccaanaatg gtaatgcctc ttcattcctc atatgaggga ataaaagaga 240
 aaaaagcttt tggaaaacat ccacttatct aatcatccca aatatgtaat caaaagtata 300
 caactcatgt gaagaataca ctggtaaaat gttantatag gccaaaggtat cttgaattcc 360
 tatatagaaa gctggtaaat gcccttttgg ctggaaccgc catcttcenn taattcnccc 420
 aaaatgacca aacacaaagg gnaagangan aagccccc 458

<210> 78
 <211> 464
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 376, 397, 442, 454
 <223> n = A,T,C or G

<400> 78
 tccgcaaatt tcctgccggc aagggtcccag catttgaggg tgatgatgga ttctgtgtgt 60
 ttgagagcaa cgccattgcc tactatgtga gcaatgagga gctgcgggga agtactccag 120
 aggcagcagc ccagggtggtg cagtgggtga gctttgtctga ttccgatata gtgccccccag 180
 ccagtacctg ggtgttcccc accttgggca tcatgcacca caacaaacag gccactgaga 240
 atgcaaagga ggaagtgagg cgaattcttg ggctgctgga tgcttacttg aagacgagga 300
 cttttctggt gggcgaaacga gtgacattgg ctgacatcac agttgtctgc accctgttgt 360
 ggctctataa gcaggntcta gaaccttctt ttgcgacgac cttcgccggg accacgctta 420
 acccaaattc cacacacttg cnggccgtac taangaatc ccac 464

<210> 79
 <211> 380
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 164, 188, 350
 <223> n = A,T,C or G

<400> 79
 ctgtatgacc agttttttcca tctccttcac ttctaccttg atcagctcga agtccagttc 60
 agtgtaagaa atgggtatcct tctccatgat gtcaattcgg acagtttaggt ttaacagttt 120

```

cttttcatac  acactaatta  attggacata  ttcctcact  ttanaaagtt  ctttctcaaa  180
cttctganaa  aagaacatga  actgtgaatt  ccaagcgttc  ccactctgtc  cacgggaaaa  240
ggtggtgtct  ggcagggaaa  cagaacactg  gcagggtccac  ggtcatccac  ggagccggtg  300
aaattgggaa  aacaactggg  acacagaacc  tccgctgcct  aagctgcggn  tgggagcttg  360
gaacccgacc  tggaactgga                                380

```

```

<210> 80
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 42, 130, 131, 134, 200, 210, 226, 243, 257, 273, 278, 295,
303, 316, 337, 344, 357, 360
<223> n = A,T,C or G

```

```

<400> 80
tcgagcggcc  gcccgggcag  gtctcagag  agctgtttgt  tncgcttctt  caaaaactcc  60
tattctccac  ttctgctaaa  ggactggatg  acatcaattg  tgatagcaat  atttgtgggt  120
gttctgtcan  ncancatcgc  actcctgaac  aaagtagatg  ttggattgga  tcagtctctt  180
tccaccaga  tgactcctan  atggtggatn  atttcaaadc  catcantcag  tacctgcatg  240
cgnggtccgc  ctgtgtncct  tgtcctgcag  gangggcnct  actacacttc  ttccnagggg  300
canaacatgg  tgtgcngcgg  ccatgggctg  gcaacantga  ttcnctgctg  cacccanatn  360

```

```

<210> 81
<211> 440
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 121, 132, 191, 211, 224, 312, 342, 354, 360, 407, 412, 427
<223> n = A,T,C or G

```

```

<400> 81
acgtggtccg  gcgagtctga  cctgcagata  tgaactcctt  gggaaaccta  cattctgcct  60
cagacatact  gggggcaaat  ggctttaaaa  gtctggctca  gggagccaag  attacagaaa  120
nccgttgagt  cnccatacat  ggacactgac  aaaggaactg  aagatatcca  aacaagccct  180
cctggtcccg  ngcctgcata  aagatcgggg  ncggaacggt  accngacgtc  tgtggtcagg  240
ggttgtggaa  aattggaaaa  aaccagtcct  gccacattg  acagggaagc  ctcaacggaa  300
attgaacaga  tngtcttata  accagtctcc  cctcctggat  cntgtctcgg  ctcnngggan  360
tcagtgatca  gtcctttcag  gtggaagaag  caaagaagat  caacaanaag  cngatcctct  420
cacctgntac  cagcatatgg                                440

```

```

<210> 82
<211> 264
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 18, 54, 130, 137, 162, 175, 184, 190, 192, 202, 206, 213,

```

218, 241, 260
 <223> n = A,T,C or G

<400> 82
 agcgtggtcg cggccgangt cctgacattc ctgccttctt atattaatta tacnaataaa 60
 acaaaatagt gttgaagtgt tggagcggcg aaaatttttg gggggtggta tggacagaga 120
 atgggcgatn ttctcanggc tgcttcaagt gggattgggg cngcgtggga tcatncagtg 180
 gganagattn cnctgaccgg antctnttgg tanggatnat cttgtgggga tgtgcaagag 240
 ncattcgtct cctgaatgan tgggt 264

<210> 83
 <211> 410
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 18, 169, 209, 245, 263, 265, 284, 378
 <223> n = A,T,C or G

<400> 83
 ancgtggtcg cggccgangt ccacagttgt gggagagcca gccattgtgg gggcagctcc 60
 acaggtaaga ctggtgtcct gagcagcgca catcatccag gacaatgggt cctgagccct 120
 gaccaaaccg ggcatttctt ggggctgaca tggcccagcc acagcccant tgctgcaga 180
 cgaaattggc atcattgggtg tcccagtant catcacacac ggtgccccag gaacctccgg 240
 tatangaact ccactcggcc tcnanacctg tgcctccat tcncagcct cagggggcaa 300
 actgggattc agatccttct gtgggtacag gtggtgatat cctgacaggc caactttctg 360
 gcctgagtgt tgactgancg tgggcagacc tgcccgggcg gccgctcgaa 410

<210> 84
 <211> 320
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 61, 81, 82, 90, 98, 111, 153, 182, 184, 187, 189, 198, 210,
 211, 212, 238, 262, 277, 279, 289, 295, 299, 318, 320
 <223> n = A,T,C or G

<400> 84
 tcgaacggcc gcccgggcag gtctgccccg ggtgtatcca tttgccgccc atctctatca 60
 naaggagctg gctaccctgc nnogaogaan tectgaanat aatctcacc nccagatct 120
 ctctgtcgca atggagatgt cgtcatcggt ggnccatgat acagggcatt ggactcagag 180
 anangtnanc acagtgtnga agcgattgan nnagttcagt tgctggtctt acccgatntt 240
 ggaaggaagg aaaacgtgtt angacgtatc tcgatgnant tgaccaaanc tgaangctnc 300
 agggggcatc gcaaaganan 320

<210> 85
 <211> 218
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> 117, 120, 152, 155, 193, 194
 <223> n = A,T,C or G

<400> 85
 tcgagcggcc gcccgggcag gtctgtgtcc cgtgtgtggtg ccattgcccc atgtgaagtc 60
 actgtgccag cccagaacac tgggtctcggg cccgagaaga ctccctttctc caggctntan 120
 gtatcaccac taaaatctcc aggggcacca tnganatcct ggggtgtccgc aatgttgcca 180
 atgtctgtcc gcnnattggc tacccaactg ttgcatca 218

<210> 86
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 25, 183, 193, 204, 225, 240
 <223> n = A,T,C or G

<400> 86
 tcgacttctt gtgaagggttt tgganaaata tgtatcagtt cgttttatatt gggatttcaa 60
 taatatcctt ggtgataatg ctgactccat ggcttctgac cccaaaaatt gaccctgtctg 120
 ccactgggtg tagccctgag attgattttt gtagccacga ttgtttcctc gtcctctgaa 180
 gtncctgggtg tanttccctc tgtngggcat tcccctctgt tgtanttccc tctgtttgan 240
 taactaccac ggccaggaaa aacaggggca cgaaggtatg gat 283

<210> 87
 <211> 179
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 66, 81, 89, 113, 120, 135, 148, 161
 <223> n = A,T,C or G

<400> 87
 agcgtggtcc cggccgatgt ctttctgtgt aagtgcataa cactccacat acttgacatc 60
 cttcangtca cgggccagct nttcagcant ctctggagtg ataggctact gtntgttctn 120
 ggcaagtgtc tcaanaatac aggggtontc tctgagatga ntttcagtcc cgaaccctc 179

<210> 88
 <211> 512
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 27, 30, 75, 106, 198, 216, 294, 349
 <223> n = A,T,C or G

<400> 88
 tcgagcggcc gcccgggcag gtccctancan agaatcacca aatttatgga gagttaacag 60

<400> 91
 tcgagcggcc gnccgggcag gtcccggtg gttgtttgcc gaaatgggca agttcntnaa 60
 ncctgggaag gtggtgcntg tncctggctgg acgctactcc ggacgcnaag ctgtcntcgt 120
 gangancatt gat 133

<210> 92
 <211> 232
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 18, 168, 173, 179, 219
 <223> n = A,T,C or G

<400> 92
 agcgtggtcg cgcccgangt ctgtcacttt gcgggggtag cggcgaattc cagccaccag 60
 agcatggctg taggggagat ctgaggtgcc atcatcaatg ttcttcacga tgacaagctt 120
 tgcgtccgga gtacgtcca gccaggacaa gcaccacctt cccacgtntt cangaactng 180
 cccatttcgg cataaccacc cgggacctgc ccgggcggnc gtcgaaaag cc 232

<210> 93
 <211> 480
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 19, 27, 221, 406, 439
 <223> n = A,T,C or G

<400> 93
 agcgtgggtc gcggccgang tctgtangct caccggccag agaagaccac tgtgagcatt 60
 ttgccgtata tctgccctg ccatttgttc actttttaaa ctaaaatagg aacatccgac 120
 acacaccgtt tgcacgtct tctcccttga tattttaagc attttcccat gtcgtgagtt 180
 tctcagaaac atgtttttaa caattgtact atttagtcac ngtccattta ctataattta 240
 tctgaccatt tccctactgt taaaatactt aagacggttt ctgatttttc cactatttaa 300
 ataatgctgt gatgaatatc tttaaaatct tctgatttct tacttttttc ccccttagat 360
 gcctggaagt ggtattttga ggtgaaagag tttgttcatt ttgaanatat ttctgtctct 420
 ctctcgacct gatgtgtana cgctcacttc cagtttagcag aaccacctta gtttgtgtct 480

<210> 94
 <211> 472
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9, 33, 70, 105, 129, 135, 136, 154, 180, 190, 213, 232, 235,
 286, 292, 293, 305, 335, 341, 363, 372, 400, 418, 422, 425,
 472
 <223> n = A,T,C or G

<400> 94
 tcgagcggnc gcccgggcag ggtctgatgt cantcacaac ttgaagggat gccaatgatg 60
 taccaatccn atgtgaaatc tctcctctta tctcctatgc tgganaaggg attacaaagt 120
 tatgtggcng ataannaatt ccatgcacct ctantcatcg atgagaatgg agttcatgan 180
 ctggtgaacn atggtatctg aacccgatac cangttttgt ttgccacgat angantagct 240
 tttatttttg atagaccaac tgtgaacctt ccacacgtct tggacnactg anntcctaact 300
 atccncaggg ttttattttg cttggttgac tcttncagct nttgcaaaact tcccaagatc 360
 canatgactg antttcagat agcattttta tgattccan ctatttgaag gtcttatnta 420
 tntcnttttt tccaagccaa ggagaccatt ggacctcggc cgcgaccacc tn 472

<210> 95
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 97, 117, 139, 173, 184, 193, 206, 230, 236, 239, 242, 265,
 280, 299
 <223> n = A,T,C or G

<400> 95
 tcgagcggcc gcccgggcag agtgtcgagc cagcgtcgcc gcgatgggtgt tgttggagag 60
 cgagcagttc ctgacggaac tgaccagact tttccanaag tgccggacgt cgggcanogt 120
 ctatatcacc ttgaagaant atgacgggtcg aaccaaacc attccaaaga aangtactgt 180
 gganggcttt gancccgag acaacnagtg tctgttaaga actaccgatn ggaaanaana 240
 anatcagcac tgtgggtgag ctccnaggga agttaataan tttcgatgg gcttattcna 300
 acctcctta 309

<210> 96
 <211> 371
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 327
 <223> n = A,T,C or G

<400> 96
 tcgagcggcc gcccgggcag gtccaccact cacctactcc ccgtctctat agatttgcct 60
 gttctgggca gttctcagca atggaatcct actgtgtatc tttttgtgac tggttcttta 120
 actcagcatc acattttcaa ggttcatcca tgetgcagcc tggctccgta ctggtgacag 180
 tacttcattt ctctctccct tttgttcaga ccaaggtctc cctctgtccc caaggctaaa 240
 gtgcagttgg tgtgatcatg gctcactgca gcctcaaact cctggactca aacagtcctc 300
 ccattctcagc ctcccaaagt gctgatntta taagttgcaa gccctgcacc cagcctgtat 360
 ctccagtttg t 371

<210> 97
 <211> 430
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> 5, 25, 30, 34, 41, 42, 43, 44, 46, 60, 97, 116, 141, 145,
158, 183, 184, 226, 232, 243, 245, 257, 271, 288, 298, 300,
303, 308, 318, 325, 329, 354, 390, 428

<223> n = A,T,C or G

<400> 97

```
tcganccggcc gcccgggcag gtttnttttn tttntttttt nnnngntagt atttaaagan 60
atttattaaa tcatcttata accaaaatgg aaacatnttc caactagaaa catgcnacca 120
tcatcttccc cagtccagtc ncaangtcca atatttttct tgcctctgca gataaaaagt 180
tcnnatTTTT ataccactc ttactccccc ccaaaatTTT aattcngtcc tnccttaaaa 240
ttncnccggg taacaantta ccaaaatggc naaccaatta ttttaanaaa aagtTgcncn 300
ttnaaaangg aaactttntg gcaantTanc ctcttttccc ttcccacccc ccantttaag 360
gggaaaacaa tggcactttg ctcttgcttn aaccctaaat tgtcttccaa aaactattaa 420
aatgttnaa 430
```

<210> 98

<211> 307

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3, 15, 19, 20, 25, 28, 43, 70, 75, 81, 102, 139, 162, 203,
259, 260, 283, 295

<223> n = A,T,C or G

<400> 98

```
tcnaacggcc gcccnngcnn gtctngcngc acctgtgcct canccgtcga tacctggtcg 60
attgggacan ggaanacaat ntggTTTTca gggaggccac anatttgag aaacggatga 120
attctccttt attccgaant cagctccttg gtctccgtag anggtgatct tgaaattctc 180
ctgTTTTgaa aactttcttg aanaaacctt acctgttggt tgtatttggt ctccactcg 240
gacaagtact cgttatccnn ggtactctta atgtgccac gtnaactccc cgggntggca 300
actggaa 307
```

<210> 99

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 5, 19, 24, 25, 38, 46, 59, 61, 66, 69, 81, 83, 88, 96, 98,
104, 106, 115, 126, 132, 135, 146, 152, 160, 165, 172, 173,
187, 188, 189, 192, 202, 203

<223> n = A,T,C or G

<400> 99

```
gtccnggacc gatgttgca aganntttct tgggccanta ggTtcnaaaa aatgataanc 60
naggtntanc acgtgaagat ntntatanag tcttantnaa aacnntaga tctgnatgac 120
gataantcga anacngggg aggggntgag gngaggTgn gtganggaag anntgttgat 180
aaaaganna gntgataaga annagac 207
```

<210> 100
 <211> 200
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 5, 6, 14, 21, 23, 29, 46, 71, 150, 151, 166, 176, 185,
 186, 195
 <223> n = A,T,C or G

<400> 100
 acntnnacta gaantaacag ncnttctang aacactacca tctgtnttca catgaaatgc 60
 cacacacata naaactccaa catcaatttc attgcacaga ctgactgtaa ttaattttgt 120
 cacaggaatc tatggactga atctaatacgc nccccaaatg ttgttngttt gcaatntcaa 180
 acatnnttat tccancagat 200

<210> 101
 <211> 51
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 35
 <223> n = A,T,C or G

<400> 101
 tctgagcggcc gcccgggcag gtctgaccag tgganaaatg cccagttatt g 51

<210> 102
 <211> 385
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 50, 145, 202, 214, 306, 362
 <223> n = A,T,C or G

<400> 102
 aacgtggtcg cggccgaagt ccatgggtgct gggattaatc cactgtgacn gtgactctga 60
 gttgagttgt ttttcaatct tctccaagcc tgtggactca tcttccacat ccttgggtag 120
 taggatgaac atgctgaaga tgetnathtt gaaaaggaac tctatgaatc ttacaattga 180
 atactgtcaa tgtttcccca tnacagaacg tggccccca aggttccatc atctgcactg 240
 ggtttgggtg ttctgtcttg gttgactctt gaaaaggac atttcttttt gttttcttga 300
 attcanggaa attttcttca tccactttgc ccacaaaagt taggcagcat ttaacccccca 360
 anggattttg ggtctgggtc cttcc 385

<210> 103
 <211> 189
 <212> DNA
 <213> Homo sapiens

```

<220>
<221> misc_feature
<222> 72, 138, 156
<223> n = A,T,C or G

<400> 103
agcgtggtcg cgcccggaagt ctgcagcctg ggactgaccg ggaagctctg attatttacc 60
caccacaggt angtttgtgtt ctgaatctca agttcacagg ttaaggctac agcatcctca 120
tcctccacgg gggttgantt gttgctggtg atgaanggtt tgggggtggct ctgcataact 180
gttgatctc                                     189

<210> 104
<211> 181
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 38, 82, 83, 97
<223> n = A,T,C or G

<400> 104
tcgagcggcc gcccgggcag gtccaggtct ccaccaangc accaccgtgg gaagctggta 60
attgatgcc accttgaagc cnntggggca ccatecncca actggatgct gcgcttggtt 120
ttgatggtgg caatggcaca ttgactcttt tgggaaccac ttcaccacgg tacaacaggc 180
a                                     181

<210> 105
<211> 327
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 80, 116, 167, 175, 182, 194, 210, 277
<223> n = A,T,C or G

<400> 105
tcgagcggcc gcccgggcag gtcttctgtg gagtctgcgt gggcatcgtg ggcagtgggg 60
ctgccctggc cgatgctcan aaccccagcc tctttgtaaa gattctcatc gtgganatct 120
ttggcagcgc cattggcctc tttgggggtca tcgtcgcaat tcttcanacc tccanaatga 180
anatgggtga ctanataata tgtgtgggtn gggccgtgcc tcacttttat ttattgctgg 240
ttttcctggg acagaactcg ggcgcgaaca cgcttanccg aattccaaca cactggcggg 300
cgttactagt ggatccgagc tcgttac                                     327

<210> 106
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 18, 73, 96, 117, 129, 161, 195, 219, 247, 250, 255, 257
<223> n = A,T,C or G

```

```

<400> 106
agcgtggtcg cggccgangt ctggcgtgtg ccacatcggt cccacctcgc tttacaaaac 60
agtcctgaac ttatctaat aaaattattg tacacnacat ttacattaga aaaaganage 120
tgggtgtang aaaccggggc tgggtgtccc ttttaagcgaa ngtggtcca cagttggggc 180
atcgctgctt cctcnaagca aaaacgcaa tgaacccna agggggaaaa aggaatgaag 240
gaactgnccn gggangnccg ctccgaaa 268

```

```

<210> 107
<211> 353
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 70, 167, 179, 184, 185, 196, 198, 215, 216, 221, 235, 286,
288, 299, 312, 321, 335, 344
<223> n = A,T,C or G

```

```

<400> 107
tcgagcggcc gcccgggcag gtggccaggc catgttatgg gatctcaacg aaggcaaaca 60
cctttacacn ctagatgggtg gggacatcat caacgccctg tgcttcagcc ctaaccgcta 120
ctggctgtgt gctgccgcag gcccagcat caagatctgg gatttanagg gaaagatcnt 180
tgtnnatgaa ctgaancnta aattatcagt tccannacca ngcaaaaacc acccngtgca 240
ctccctggcc tgggtctgctg atgggacctc gggcgcgaa acgctnancc caattccanc 300
aactgggcg gncgttacta ntggatccga actcnggtac caancttggc gtt 353

```

```

<210> 108
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 61, 121, 145, 194, 202, 217, 237, 252, 254, 275, 279, 318,
330, 343, 346, 352
<223> n = A,T,C or G

```

```

<400> 108
agcgtggtcg cggccgaagt cctggcctca catgacctg ctccagcaac ttgaacagga 60
naagcagcag ctacatcctt aagggtccgga aagtttagatg aagatttgga tcctgcattg 120
nctgcctcc cacctatctc tcccnaatta taaacagcct ccttggaag cagcagaatt 180
taaaaactct cccnctgccc tnttgaacta cacacnacc gggaaaacct ttttcanaat 240
ggcacaaaaa tncnaggga tgcatttcca tgaangaana aactgggtta cccaaaatta 300
ttgggttggg gaaatccngg gggggttttn aaaaaagggc aanccncaa anaaaaaac 360

```

```

<210> 109
<211> 101
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> 10, 47, 77, 82
 <223> n = A,T,C or G

<400> 109
 atcgtggtcn cgccgaagt cctgtgtcct ggatgggccc tgtgcancga atccgttggc 60
 gactcctaac taccaanaaa angactctcg gaagaaattt c 101

<210> 110
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 56, 116, 130, 236, 243, 246, 248, 271, 276, 280
 <223> n = A,T,C or G

<400> 110
 ccanggaaac ccagagtcac atgagatagg gtggctttcg ggacaggggg tcagangaat 60
 ggtacatgga tctcagcccc tgatggacac ggaacagggtg tggtcagaac tcccangatt 120
 ctgcatccan gatccagtct ctatagaagt tatggatcat tccttcattt cattcccccc 180
 ttcatgaaaa aacttctgaa caagcctttt ttctcacttt ggggccctgt ttggcncaag 240
 gtnttnantt ggggaaaaaa aaacaaatcc nttccttan ccctccgtgg ggaatgacct 300

<210> 111
 <211> 366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 42, 65, 90, 180, 250, 257, 264, 296, 333, 337
 <223> n = A,T,C or G

<400> 111
 cgagcgcccg cccgggcagg tccttgtgtt gccatctgtt ancattgatt tctggaatgg 60
 aacanccttc tcaaagtttg gtcttgctan tcatgaagtc atgtcagtgt cttaaagtcac 120
 tgctgctcac ttcttacccc agggaaatata ctgcataagt ttctgaacac ctgttttcan 180
 tattcactgt tcctctcctg cccaaaattg gaagggacct catttaaaaa tcaaatttga 240
 atcctgaaan aaaaacngga aatntttctc ttggaatttg gaatagaatt attcanttga 300
 ataacatgtt ttttccctt gccttgctct tcncaanaac atctggacct cggccgcgcac 360
 acctta 366

<210> 112
 <211> 405
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 7, 23, 29, 52, 119, 136, 139, 147, 172, 204, 232, 247, 320,
 323, 324, 362, 386
 <223> n = A,T,C or G

<400> 112

```
ctgactncta aacttctaata tcnatcaana taactactct ccttccgtct tncagagtgt 60
tcacaataaa tctgtgaatc tggcatacac agttgctgga aaattgttct tcctccacna 120
aaagggtcaat tgttcncnc atgaaanaag ataaattgtt catccatcac tncatgaacca 180
tccaaaacgc cggcggaatt attnccccgt tattatgggg aacggaattt tnaataaatt 240
tggaangaa tggggctttt attgttttgt tttccccctt tcttggcatt gattggggcg 300
caatgggccc cctcgctcan aanntgcccc ggggcgggcc gctccaaaac cgaaattccc 360
anccacactt ggcggggcgt tactanttgg atccgaactc ggta 405
```

<210> 113

<211> 401

<212> DNA

<213> Homo sapiens

<400> 113

```
ggatagaaga gtatatgggt ttggcaccac ggggtggata ggcaaaacat ttggttgata 60
aggcgcagat tctgaactaa cttgtaaggc ttgtctggtt ttaggacagg taaaatgggg 120
gaatggtaag gagagtttat aggttttagg agcccatgct gtagcaggca agtgataaca 180
ggctttaatc ctttcaaagc atgctgtggg atgagatatt ggcatttgag cggggtaagg 240
gtgattaggt ttaatagaga tggtaagggg tgcattgatcc ggtccgcca ggaagggaag 300
tagaggtatc ttatacttgt ggggttaagg tgggggggat ataagaggga ggacgcaaaa 360
ggaggctttg gattaggaat aaggggcggc aatgagatgc a 401
```

<210> 114

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 2, 13, 17, 37, 277, 303, 318, 324, 381

<223> n = A,T,C or G

<400> 114

```
angtccacag gangcangag gccaggctcc gtcccancca gtccatgatg ttgaagagga 60
ggaagcagca catgggggtg aagaactgac tccacttccc aggactggtg gagctggtca 120
ccatggctgt ggtggcgggg aagacggaca gggtgacttc tggaagacag tgaagactga 180
aggttttcct ggcttctggg gctcatctgg ctctgattcc ggctccttct ccaggtcaag 240
atccagggtt cagagctact ttcttggggg actactnggg aatcccgttc tcatctgggg 300
gtngaggggg gacggggnaa gggncatgct tgtgacctag gtttcccacc tcggccccgcg 360
accacgctaa ggcccgaatt ncagcacact tggcggcccc t 401
```

<210> 115

<211> 401

<212> DNA

<213> Homo sapiens

<400> 115

```
atccctgtaa gtctattaaa tgtaaataat acatacttta caacttctct tagtcggccc 60
ttggcagatt aaatctttgc aaaattccat atgtgctatt gaaaaatgaa ataaaacctc 120
agatgtctga attcttattt caaatacagt tatataatta ttttaaatta caatatacaa 180
tttctgtaa atacaactgt taagggatcc tgagaacaat tataagatta taataatata 240
tacaaactaa cttctgaaat gacatgggtt gtttcttcc caccctccta ccctctcaaa 300
```


gagtttttgc atttgcgtgtt cctgggttgca aaaggcaaaa gaaaatctaa aaatagtctg 360
 tgtgtgtcca cgacatgctc gctcctttga gaatctcaaa c 401

<210> 116
 <211> 301
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 12, 13, 33, 88, 89, 90, 104, 106, 116, 121, 131, 142,
 147, 150, 160, 164, 166, 175, 197, 251, 285, 298
 <223> n = A,T,C or G

<400> 116
 ngatttaatt gnnagcttct ttttaatgga atnnttggct aaaatgaatt gatgattatg 60
 aatatcccta ggaggagtta gcatggannn tgatcatttt cttngnactc ctttangaca 120
 nggaaacagg natcagcatg anggtanacan aaaccttatn accnangcgc acganctgac 180
 ttcttccaaa gagttgnggt tccgggcagc ggtcattgcc gtgccattg ctggagggtc 240
 gattctagtgt ntgcttatta tgctggccct gaggatgctt ccaanatgaa aataagangc 300
 t 301

<210> 117
 <211> 383
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 32, 38, 49, 100, 142, 147, 181, 250, 258, 272, 274, 297,
 340, 341, 366, 368, 377
 <223> n = A,T,C or G

<400> 117
 aattgcaact ggacttttat tgggcagtta cnacaacnaa tgttttcana aaaatatttg 60
 gaaaaaatat accacttcat agctaagtct tacagagaan aggatttgct aataaaactt 120
 aagttttgaa aattaagatg cnggtanagc ttctgaacta atgccacacag ctccaaggaa 180
 nacatgtcct atttagttat tcaaatacca gttgagggca ttgtgattaa gcaaacaata 240
 tatttggtan aactttgntt ttaaattact gntncttgac attacttata aaggagnctc 300
 taactttcga tttctaaaac tatgtaatac aaaagtatan ntttcccat tttgataaaa 360
 gggccnanga tactgantag gaa 383

<210> 118
 <211> 301
 <212> DNA
 <213> Homo sapiens

<400> 118
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 ctgtttttgt tttacattag tcattggacc acagccattc aggaactacc ccctgcccc 120
 caaagaaatg aacagttgta gggagaccga gcagcaccct tcctccacac accttcattt 180
 tgaagttcgg gtttttggtg taagttaatc tgtacattct gtttgccatt gttacttgta 240
 ctatacatct gtatatagtg tacggcaaaa gagtattaat ccactatctc tagtgcttga 300
 c 301


```

agtctgatgt gtccacagcc attgaccttt tcagacaagc cggcctcggc aatcatctct 1260
ctggaagtga gcggttgacc ctccctggctc ccctgaattc tgtattcaaa gatggaaccc 1320
ctccaattga tgcccataca aggaatttgc ttcggaacca cataattaaa gaccagctgg 1380
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acagagactg tttgaatggt ttcaaaacca agtatcacac tttaatgtac atgggccgca 2220
ccataatgag atgtgagcct tgtgcatgtg ggggaggagg gagagagatg tactttttaa 2280
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cctgacattc acttccagag aggacctatc ccaaatgtgg aattgactgc ctatgccaag 2400
tccctggaaa aggagcttca gtattgtggg gtcataaaa catgaatcaa gcaatccagc 2460
ctcatgggaa gtccctggcag agtttttgta aagcccttgc acagctggag aaatggcatc 2520
attataagct atgagttgaa atgttctgtc aaatgtgtct cacatctaca cgtggcttgg 2580
aggcttttat ggggcctgtt ccaggtagaa aagaaatggt atgtagagct tagatttccc 2640
tattgtgaca gagccatggt gtgtttgtaa taataaaacc aaagaaacat a 2691

```

<210> 122

<211> 683

<212> PRT

<213> Homo sapiens

<400> 122

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Met Ala Leu Phe Val Arg Leu Leu Ala Leu Ala Leu Ala Leu Ala Leu
 1           5           10          15
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          20          25          30
Val Leu Gln His Ser Arg Leu Arg Gly Arg Gln His Gly Pro Asn Val
          35          40          45
Cys Ala Val Gln Lys Val Ile Gly Thr Asn Arg Lys Tyr Phe Thr Asn
          50          55          60
Cys Lys Gln Trp Tyr Gln Arg Lys Ile Cys Gly Lys Ser Thr Val Ile
65          70          75          80
Ser Tyr Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly
          85          90          95
Cys Pro Ala Ala Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val
          100         105         110
Val Gly Ser Thr Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu
          115         120         125
Arg Pro Glu Met Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser
          130         135         140
Asn Glu Ala Trp Ala Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val
          145         150         155         160
Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val
          165         170         175

```

Gly	Arg	Arg	Val	Leu	Thr	Asp	Glu	Leu	Lys	His	Gly	Met	Thr	Leu	Thr
			180					185					190		
Ser	Met	Tyr	Gln	Asn	Ser	Asn	Ile	Gln	Ile	His	His	Tyr	Pro	Asn	Gly
		195					200					205			
Ile	Val	Thr	Val	Asn	Cys	Ala	Arg	Leu	Leu	Lys	Ala	Asp	His	His	Ala
	210					215					220				
Thr	Asn	Gly	Val	Val	His	Leu	Ile	Asp	Lys	Val	Ile	Ser	Thr	Ile	Thr
225					230					235					240
Asn	Asn	Ile	Gln	Gln	Ile	Ile	Glu	Ile	Glu	Asp	Thr	Phe	Glu	Thr	Leu
				245					250					255	
Arg	Ala	Ala	Val	Ala	Ala	Ser	Gly	Leu	Asn	Thr	Met	Leu	Glu	Gly	Asn
			260					265					270		
Gly	Gln	Tyr	Thr	Leu	Leu	Ala	Pro	Thr	Asn	Glu	Ala	Phe	Glu	Lys	Ile
		275					280					285			
Pro	Ser	Glu	Thr	Leu	Asn	Arg	Ile	Leu	Gly	Asp	Pro	Glu	Ala	Leu	Arg
						295					300				
Asp	Leu	Leu	Asn	Asn	His	Ile	Leu	Lys	Ser	Ala	Met	Cys	Ala	Glu	Ala
305					310					315					320
Ile	Val	Ala	Gly	Leu	Ser	Val	Glu	Thr	Leu	Glu	Gly	Thr	Thr	Leu	Glu
				325					330					335	
Val	Gly	Cys	Ser	Gly	Asp	Met	Leu	Thr	Ile	Asn	Gly	Lys	Ala	Ile	Ile
				340				345					350		
Ser	Asn	Lys	Asp	Ile	Leu	Ala	Thr	Asn	Gly	Val	Ile	His	Tyr	Ile	Asp
		355					360					365			
Glu	Leu	Leu	Ile	Pro	Asp	Ser	Ala	Lys	Thr	Leu	Phe	Glu	Leu	Ala	Ala
	370					375					380				
Glu	Ser	Asp	Val	Ser	Thr	Ala	Ile	Asp	Leu	Phe	Arg	Gln	Ala	Gly	Leu
385					390					395					400
Gly	Asn	His	Leu	Ser	Gly	Ser	Glu	Arg	Leu	Thr	Leu	Leu	Ala	Pro	Leu
				405					410					415	
Asn	Ser	Val	Phe	Lys	Asp	Gly	Thr	Pro	Pro	Ile	Asp	Ala	His	Thr	Arg
		420						425					430		
Asn	Leu	Leu	Arg	Asn	His	Ile	Ile	Lys	Asp	Gln	Leu	Ala	Ser	Lys	Tyr
		435					440					445			
Leu	Tyr	His	Gly	Gln	Thr	Leu	Glu	Thr	Leu	Gly	Gly	Lys	Lys	Leu	Arg
	450					455					460				
Val	Phe	Val	Tyr	Arg	Asn	Ser	Leu	Cys	Ile	Glu	Asn	Ser	Cys	Ile	Ala
465					470					475					480
Ala	His	Asp	Lys	Arg	Gly	Arg	Tyr	Gly	Thr	Leu	Phe	Thr	Met	Asp	Arg
				485					490					495	
Val	Leu	Thr	Pro	Pro	Met	Gly	Thr	Val	Met	Asp	Val	Leu	Lys	Gly	Asp
			500					505					510		
Asn	Arg	Phe	Ser	Met	Leu	Val	Ala	Ile	Gln	Ser	Ala	Gly	Leu	Thr	
		515					520				525				
Glu	Thr	Leu	Asn	Arg	Glu	Gly	Val	Tyr	Thr	Val	Phe	Ala	Pro	Thr	Asn
	530					535					540				
Glu	Ala	Phe	Arg	Ala	Leu	Pro	Pro	Arg	Glu	Arg	Ser	Arg	Leu	Leu	Gly
545					550					555					560
Asp	Ala	Lys	Glu	Leu	Ala	Asn	Ile	Leu	Lys	Tyr	His	Ile	Gly	Asp	Glu
				565					570					575	
Ile	Leu	Val	Ser	Gly	Gly	Ile	Gly	Ala	Leu	Val	Arg	Leu	Lys	Ser	Leu
			580					585					590		
Gln	Gly	Asp	Lys	Leu	Glu	Val	Ser	Leu	Lys	Asn	Asn	Val	Val	Ser	Val
		595					600					605			

atagcacata tgggaattttg caaagattta atctgccaaag ggccgactaa gagaagttgt 540
aaagtatgta ttattttacat ttaatagact tacagggata agg 583

<210> 125
<211> 783
<212> DNA
<213> Homo sapiens

<400> 125
tcaaccatac atactgcttc cactagctaa taccaaatgc aggttctcag atccagacaa 60
atggaggaaa agaacattta tgcttcggtt tcagaaagcc aagtcgtagt tttggccctt 120
cctttctcta aagtttattc ccaaaaacag gtacgattcc tgattgggca gagaagagga 180
tattttcagc ccacatctgc tgcaggtagt tcattttctc ccactctcac tgtgactagt 240
aaagatctca ccacttctct ttggaatttc caactttgct tgtgattgaa tgtcacttcg 300
tgaatttgta ttatgtcaga tcacttgcca ttgctcttcc atatgcatca agttgccagg 360
cactgttgcg ctgtcggggc cactggaatc cacgggggtg aaacaaattc aattatgctt 420
ttacagatcc tgctcaaaaa aggtttcaac tgcttaacca agtacagctc attcttccac 480
cttcttactc tgcaacccaaa ccaagtgcgc catactacag gtaggtgccg agaaattccg 540
cagcagaaaa tccaaaatca tttctgaaac ctctttgcta acaaaagtgc tttttttctc 600
caaacagcat ataaaatgat caagtcttga aagagaaaag aagcaaagta gcaaatacat 660
caacaattca ctatcagaaa cacataaaat cccagagaga gagaaggcag tatctctgaa 720
tcattgatgg acttggaag ttcggaagga ttccgagtgc ttcctttcag aaagacaatt 780
ctg 783

<210> 126
<211> 604
<212> DNA
<213> Homo sapiens

<400> 126
cctgctagaa tcaactgcgc tgtgctttcg tggaaatgac agttccttgt tttttttggt 60
tctgtttttg ttttacatta gtcattggac cacagccatt caggaaactac cccctgcccc 120
acaaagaaat gaacagttgt agggagacc agcagcacct ttctctccaca caccttcatt 180
ttgaagttcg ggtttttgtg ttaaagttaa tctgtacatt ctgtttgcca ttgttacttg 240
tactatacat ctgtatatag tgtacggcaa aagagtatta atccactatc tctagtgcct 300
gactttaaat cagtacagta cctgtacctg cacggtcacc cgctccgtgt gtcgccctat 360
attgagggct caagctttcc cttgtttttt gaaaggggtt tatgtataaa tatattttat 420
gcctttttat tacaagtctt gtactcaatg acttttgtca tgacattttg ttctacttat 480
actgtaaaatt atgcattata aagagttcat ttaaggaaaa ttacttggtg caataattat 540
tgtaattaav agatgtagcc tttattaaaa ttttatattt ttcaaaaaaa aaaaaaaaaa 600
aaaa 604

<210> 127
<211> 417
<212> DNA
<213> Homo sapiens

<400> 127
ctgagcctct gtcaccagag aaggctgagg cccaatggc acacctcaga aacctacacc 60
ccgaggctgg acggctggac tcttgagcac aagctccctc tcgcaccctt tgccagacag 120
tttgtctcca atttcaaact gacctaaaggc tcttactcct ggattttttg tttttaaacc 180
ttctccagc cagtcttcgg gagggcatga ttagagaagt gctcctttgc tgatggagga 240
ggggacctaa ggaagaaggt ggatcccagg tgcctcctct ctaattgatc ctccccacct 300
agtttccttt gcctctcttc cttctaccag gtcattgttt ttactctctg ccccttctgc 360

ctcctagcat ttcaaaaact gtagagtgca ccccatagtg gacattttta gtccagg 417

<210> 128

<211> 657

<212> DNA

<213> Homo sapiens

<400> 128

```
ccacactgaa atgcagttta atgtggaaac ttttctaaat acatattgta gcatctttgg 60
acatcaacgt gtggcctgaa atttttatta ttgttccttc ttctcctcca ttaaaaaaaaa 120
aatctccttg tggatatttag tcattttacca ttaacacata ttatggctta aaaagggccca 180
tcccttcctt ttctgagctg gagttcttca cgctcacctt tgatgcatgg ccttagctgg 240
ttactttgcc ttggtttggt catgaacatt ggggttagtg gcctggcaac ttgaatgcat 300
atggaaaaga caatgccaaag tgatctgaca taatacaaat tccgaagtga cattcaatca 360
caagcaaagt tggaaattcc aaagagaagt ggtgagatct ttactagtca cagtgaagat 420
gggagaaaaa gacatacctg cagcagatgt gggctgaaaa taccctcttc tctgccaat 480
caggaatgct acctgttttt gggaataaac tttagagaaa ggaagggccca aaactacgac 540
ttggttttct gaaacggaag cataaatgtt cttttcctec atttgtctgg atctgagaac 600
ctgcatttgg tattagctag tggaagcagt atgtatggtt gaagtgcatt gctgcag 657
```

<210> 129

<211> 1220

<212> DNA

<213> Homo sapiens

<400> 129

```
cgcgtgctcg gctcacacca acaaggcaag ccaaaggcgc ccctccccag agggatccct 60
aacgtgcccc gcatgtagat tctggactaa cagacaacat acattcaccg ctggtcacc 120
agatcctcat tcaaaaccac tgctggcaca tccctttcct tactttgcc tgtgctacca 180
gccacggaag gagcctctct tgtttttct ataaaatggg taggcaggag aaaagcagg 240
gccctaagat tgctctaagg ccagcatgt ggttacagtt ctctgacttg cagaacctgc 300
cagggtgtatg gctacaagtt atcctcgtgc tgatctgtct cattactaag ttaatggaga 360
agacagaaaag gtaaaaatca cgtgtagcaa gaacaactct tatttcacaa actcaggat 420
gaaacgaaac gcctgtcctt catggaactg cttttagctc ctgtcttttc aaaatggcag 480
agggagttcc tacacacact ttttccctgg aggccaaggt ctaggggtag aaaggggagg 540
gggtggggcta ccaggtagca gttgacaacc caaggtcaga ggagtggccc tcagtgtcat 600
ctgtccacag tgatacctgc caagatgacc actgaccac atctggtctt agtcattgg 660
ctcctcagat ttctggggcc acctgcaagc cccattccat tcctacagat ctctcagcca 720
cctgtaagtc ctttgtgaag atgtgggtga cacaggggga caggaaaacc catttctcaa 780
cccagatcca tgtctccact gcttctactc tgggttgga ttcaggaaga caggcacagt 840
cctctctgtt catagaaaca cctgccagtg tcaaggattc cagtcagggtg tctatcccaa 900
ctggtcaggg agagaagggc agaccattc tcaaagacca ccatgtccaa ggtctgacag 960
ctccccactg gctgccccca caggggcttt aggtcgtctt gggtcatggg gaagcgtccc 1020
tcttatcgct ggtctgtgtt ctcttgatt tggtatctat gttggtacga ctctggcct 1080
tttatctaaa ggactttggc ttttgtaaat cacaagccaa taatagactt ttttctcccc 1140
ctctgttttt tgctgtgtca tctctgcctt gagactgcct tgagacagtg cttgccttga 1200
gagagtgage caattaacag 1220
```

<210> 130

<211> 1274

<212> DNA

<213> Homo sapiens

<400> 130

```

ccatatgagt ttgccatctc catggatgcc atttcaatgc cttcagggtg atcattctct 60
cccaaagac tgccacggg gtcatcactc ctgtgacgaa atgagggtg gattgaagat 120
gttctgctga gcacccccct ggtcatcttt ggggtctcag aagagccata atcatgacca 180
ttctcagcat ctgaataatc aggttctctc caagtgcctg gcaagttctg attgtcctca 240
gcactgggat agtctggctc cccaaaaaag ggtggagagt taggttgaat gtcagcgct 300
ggataatcag gctttccag agagtctgcg tatggattga ttctaaaact tgtatgttcc 360
agattctttc tggatcctgg atggttcaaa ttggctctgg gtccaggatg atcagagttg 420
ctctgagctc cagggtagtc cggttctaag gagccaaat gatctggatg tgttctggag 480
cctgcatagt ttccactgct gctggagcct gcaaaatcag gatttcgttg agatccaggg 540
tagtctggtt gtctggatga tgctcgggtg taggatgac tctgaaattc actataatct 600
ggctctggtg gagaggtagg atggtctggg cttgttctag aggctgcaga gtatgcattg 660
cttctggtgc cagaatagtc tggattactc agagatctag gataatttgg ttctgccaga 720
gaccaggat agtctggacg tgttctggag gctacagagt atggattgct cctggtgccg 780
gggtaatctg gattgttcag aggacctgga acatctggat aaccttgagt tttcaaatac 840
ccctgcgtac gggttctgaga ccctgaatag tcagggtaat ctgggtcttc ctcagaccag 900
ttattcctgt agtaggcaga catgttggtg tggactcttc accctggagt ggtaaaactgt 960
cccagcattt gcaattactc agggatcttt tttttttcac ttttttgccc ttattgttct 1020
tgctttgtcc caagtagatg caaatgttgt gcaaaccaac ttgatcttaa gatgttggtg 1080
agaacactgg agtcacgtgt ccattgggtcc ttcaggctgg cttttgatgg gagctgggat 1140
gcagatgatt tacggagggt tataatctgt gatgctggtc tgaagtctga atattccaag 1200
ttgctgactg caggcagagc ctcatgtcct cctggcgctc ctggtgccgc tgcttgcgct 1260
ggcctcggg tcga 1274

```

```

<210> 131
<211> 554
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 403
<223> n = A,T,C or G

```

```

<400> 131
ctgtaattct gcctttttct ccttcattcc atccttctc tgcccagata aagkccagca 60
gaaattcctc ctttctacct ctctgggact ctgagacagg aaatcttcaa ggaggagttt 120
ttccctcccc actattctta ttctcaacct ccagagggaac caaggctgct gtacccacct 180
cagggacaga actccacact atagtgggaa agcttcaggg accctcctt ttagtgctca 240
gggctcacct atgctactgg tccttttggc aaaaaaggaa aatgatagag ccagggttgc 300
ccctgatgta gcagccttac tgtggagggg ccaaagctgg tgttcagagc tcacccaagg 360
agggagggtg taagggtgta tgcggttctg tgaacctact ggntggtagt aacatgaggc 420
ttggggtgag ggaaaccaag taggggttgg agaaggagca gcaccttgt macacctggc 480
taccatagc tagctttctg cctcaaaaa ctcagccttc aagggatcca gccacacac 540
gccacaggca gcag 554

```

```

<210> 132
<211> 787
<212> DNA
<213> Homo sapiens

```

```

<400> 132
ctggtcaccc aactcttgtg gaagagggga attgagatcg agtactgaat atctggcaga 60
gaggctggaa tccttcagcc ccagagccca gggaccactc cagtagatgc agagaggggc 120
ctgcccaggg gtcagggcag tgggtatcac tggtgacatc aagaatatca gggctgggga 180

```



```

ggcatctttg tttcctggtg cctcctcaa agttgctgac actttgggga cgggaagggg 240
tagaagtagg gctgctcctt ttggagctgg agggaataga cctggagaca gagttgaggc 300
agtcgggctg tccaggttct aagcatcaca gcttctgcac tgggctctga ggagattctc 360
agccagagga tcccagcctc ctccctccctc aaatgtcagt ccaagcaaat accaaagcaa 420
cgcatcgatt ttgtggaagt caattagaga tgtggggagc tatcgagac aagcactatt 480
gtaccttttc acctccacac ttgtcacaa cagggaactgt ctccctcccca ctttgcttgc 540
cacgcctgcc atggcttgag ctgggggtgag gagtggctctt tatcttcttt gggagatcct 600
gactggttgc gcacttgcta agggcaggaa gtctggaggg ctgcaggaat ggtgccgttg 660
ataaacagggt ggacttataa tcatcatgca ctgcaattgt agaacatagt ctccctgcctt 720
ttctcatttg tataattgtc tgggtcaata ttctcccaat attgggaggg gctctgcagc 780
cctccag

```

```

<210> 133
<211> 219
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 19, 191
<223> n = A,T,C or G

```

```

<400> 133
tactgctcta agttttgtna aatttttcat attttaattt caagcttatt ttggagagat 60
aggaaggtca ttccatgta tgcataataa tcctgcaaag tacaggtact ttgtctaaga 120
aacattggaa gcagggttaa tgttttgtaa actttgaaat atatggtcta atgtttaagc 180
agaattggaa nagactaata tcggttaaca aataacaac
219

```

```

<210> 134
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<400> 134
gatttttaaaa acatcatgac tttgaactga aaaacataca cgtttagcac acaaattattg 60
taatatgaat gaactccaac tccatttgaa aacatgtgaa tcaaagtaca gttttagaag 120
ttagtaattc acatttaagc aagtttagcgc cttgctgaat acagcctttg taaaaaagag 180
acttagtgca tattttaatg gtacattgtg gttttgtacc atttggttga gttg
234

```

```

<210> 135
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<400> 135
ctccagcctg gctatatccg gtcccgtat aacctgggca tcagctgcat caacctcggg 60
gctcaccggg aggctgtgga gcactttctg gaggccctga acatgcagag gaaaagccgg 120
ggccccggg gtgaaggagg tgccatgtcg gagaacatct ggagcaccct gcgtttggca 180
ttgtctatgt taggccagag cgatgcctat ggggcagccg acgcgcggga tctgtccacc 240
ctcctaacta tgtttggcct gccccagtga cagtgggacg ggctgccctg tgagtgtcca 300
cctggggatt aaatatgtct tcaacaaggg aggcctggct tctacaatgg tttaggtaaa 360
ggggcctttg aagtagttct ggccaggctt gcaatacaca caacacaaga gccca
414

```

```

<210> 136

```

<211> 461
 <212> DNA
 <213> Homo sapiens

<400> 136
 gaagtgatta ataggtttat ttgcatatac acagagaaga gtcagcattg ttgggtgaga 60
 agaggcaggc tgtgaggagg taaggcttca gcagaggaag gcacottgac agacaacacg 120
 agactcctat taaatcagca cagttgcaaa cttcacctgc ctcaagccaa cagctcattg 180
 aactcatatg tcgattgaga atcattttaca aaaccaggag agaaacaatg ggaagagcaa 240
 cggctctctca tccctggacc tgacactcaa aacattatgt acaggatgca ggaacaaaat 300
 ctgtctgac agtgccctct cctgctggga aaaacaccca tcacggaaga atttggggat 360
 taaatatgtc ttcaacaagg gaggcctggc ttctacaatg gtttaggtaa aggggccttt 420
 gaagtagttc tggccaggct tgcaatacac acaacacaag a 461

<210> 137
 <211> 269
 <212> DNA
 <213> Homo sapiens

<400> 137
 atagcaaattg gacacaaatt acaaattgtgt gtgcgtggga cgaagacatc tttgaaggtc 60
 atgagtttgt tagtttaaca tcatatattt gtaatagtga aacctgtact caaaatataa 120
 gcagcttgaa actggcttta ccaatcttga aatttgacca caagtgtctt atatatgcag 180
 atctaattgta aaatccagaa cttggactcc atcgttaaaa ttattttatgt gtaacattca 240
 aatgtgtgca ttaaatatgc ttccacagt 269

<210> 138
 <211> 452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 414
 <223> n = A,T,C or G

<400> 138
 ctccatggga ggcaaaatat agagaattta tggtgcccaa ctcttatgta atcactggac 60
 taatcttccc tggtaactat gcaacatttg gacagaaagg cacacaaaaa agtttaaata 120
 tttcatgtgc caatctggaa aaaaataatt taaatcaaca gaacagacag tacatctaca 180
 caaatgagga aagcagaaaa gatacctcac attcatttat ctcaggtttc aaagtggctt 240
 caatgctaaa gtaaatgtat taacatttgg aaaatacaag acaatttttt tgtttgtttt 300
 caattttttt agctctatac aatgattaca acataagaca aaaaaaaaaa aaaaacacaa 360
 aaaacaaaac aaaaaaggag ttcaggactt gttatcagtg tccaagtggc taanaactgg 420
 ttcccataac aagcattgaa agttaaggcc cc 452

<210> 139
 <211> 474
 <212> DNA
 <213> Homo sapiens

<400> 139
 tgtgcctcat tgaggttaca attgaaacag atgtgagcac ctgagagact ttccctgatt 60
 atattcctcc acaaacact gtaccatatt accttatttt atcttcttga aattcttatt 120

```

cattggccttg tttgttgtct ctttgcatta gatatatgta agtccttgg cataaatttg 180
acattggtag gggactgaca ttctaacctg gcccaggccc taggagagag ataactccac 240
aaagcagcac atactatctt aggttagcag ggagctaact caccatgtag cagatgaaaa 300
aaaccaaacc cagcactgtg cataaatacc acttgccaag aagtcaggtc ctcggcaacc 360
gagaatcaac ctcagcacia acgcagggtg ctgggctctg ttccccctta gccaccacct 420
cagcctctcc cctccccctg cccaagtgcc caagagcttg gctctctgtg cttt 474

```

```

<210> 140
<211> 487
<212> DNA
<213> Homo sapiens

```

```

<400> 140
cttccctgcc tcgtgttcct gagaaacgga ttaatagccc tttatcccc tgcaccctcc 60
tgcaggggat ggcactttga gccctctgga gccctcccct tgctgagcct tactctcttc 120
agactttctg aatgtacagt gccgttggtt gggatttggg gactggaagg gaccaaggac 180
actgacccca agctgtcctg cctagcgtec agcgtcttct aggagggtgg ggtctgcctg 240
tctgtgtgtg gttgggtttg ccctgtttgc tgtgactacc cccccccctc ccgaaccga 300
gggacggctg cttttgtctc tgctcagat gccacctgcc ccgcccattg tccccatcag 360
cagcatccag acttttcagga agggcagggc cagccagtc agaaccgcat cctcagcag 420
ggactgataa gccatctctc ggaggggccc ctaataccca agtggagtct ggttcacacc 480
ctggggg 487

```

```

<210> 141
<211> 248
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 25
<223> n = A,T,C or G

```

```

<400> 141
ttaaagatgg ggaaatgagg cctgnaaata gaaaagattt gcctagagtc acacacactg 60
tcaggctcagg tagagtcaaa atcaggcacc ccgactcaca gactgcttca cattgccatc 120
agagattgtc ctgcaacaat attatgttta gttctactgc agaatagataa ctggatctta 180
ccccctttgc ctgatctggc caciaacttg ttttcagggt ctttccatta ggctctcttc 240
agctaatt 248

```

```

<210> 142
<211> 173
<212> DNA
<213> Homo sapiens

```

```

<400> 142
tactaagatt gtccaagcct ccctcttaaa actttctttc cttttagagg aatcattact 60
tcgtattaaa agtttctact tccttgtaga atatctacat ccaatgggcc atggcacaaa 120
atttaagtct agaaagaatc ttaaaggctc atcttatagt aaccagaggc agg 173

```

```

<210> 143
<211> 511
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 143
 cctcgtcaga ggggtggttc ctggtnacct gtactccacg gacctcgggtg aagcaaaagc 60
 ttcagggcag aggggaatgag gcaacccagt ggcagccccg ctgggccccg tggctcctgc 120
 tctcctattg gacgtagagg caggggagag acttctctat acaaatattc tcatcacaga 180
 agggatgata cttgctgctc tgccgtaggg tttttgatgc tgagctatgc tgcacatgac 240
 gttaacctaa agaacttgga ctgagctttt aaaaaaggac agcaaacaat tttataatcc 300
 ttaaagtgtg atagacgggt acactagtgc agggatttgg ggaggctctt tgggtgtgga 360
 ggctgtcact tgtatttatt gtgactctaa atctttgata gtaaaacaaa tgtaaaaaga 420
 aatgtttgcc accagatggg aatagaagtt ccaataagca ggctggaatg ggtggctata 480
 cgttgtatca cgaggaagtt ttagactctg a 511

<210> 144
 <211> 190
 <212> DNA
 <213> Homo sapiens

<400> 144
 cattcttctg tcacatgcc aattcagttgt caatcccatt gtctatgctt accggaaccg 60
 agacttccgc tacacttttc acaaaattat ctccaggtat cttctctgcc aagcagatgt 120
 caagagtggg aatggtcagg ctggggtaca gctgtctctc ggtgtgggcc tatgatctag 180
 gctctcgcct 190

<210> 145
 <211> 169
 <212> DNA
 <213> Homo sapiens

<400> 145
 gatgtgggta tctcctcaga tggccagttt gccctctcag gctcctggga tggaaacctg 60
 cgctctggg atctcacaac gggcaccacc acgaggcgat ttgtgggcca taccaaggat 120
 gtgctgagtg tggccttctc ctctgacaac cggcagattg tctctggat 169

<210> 146
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 146
 atctagagaa gatttgggaa acacatgata gctatgggta aatacttaac agggcaatca 60
 cagggaagat gactagattt cctaacatcc atgagtgaag tttatagaag tatactctct 120
 gacttgatat aaaggaagat tttaaaaaac atgactgttc aggagtgttc aagtagggtc 180
 agatgaccag tgattgggaa tacttcgtaa gcaggagcaa gtaagatctg agccactgtt 240
 ctatcggtag ggtgtctgtg gtattccttg gtcaaagaag tactctaagc aacttcagtc 300
 tcacgaatta ctatcaccct cgtgggcata catgatggtt accctaaaga ggaagtttca 360
 gaaggcagta atattggatc ctggaatagt cagacaggag ccttcatgca gatacccttt 420
 tcagttctcc atacacccat tcacaagtgg tcacaaaaac acccagtacc ttactttggc 480
 ttaccacct taacaatatg ctcaatatga g 511

<210> 147
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 387
 <223> n = A,T,C or G

<400> 147
 gaccagtga gttcttctg gctattgtat aatccacagc cacactgtga aagcaaactct 60
 ggccagttag caacacaggg agaattctgcc tgaactgacc aaagggtgcc atacttcatg 120
 tcagtgaaga ttccacctcc atcatgttct aaagagccaa caacagattc tagggcactg 180
 caaaatgctt cagcaattaa ttgaagttct gtttgagtac attcatcatc ttgagaatg 240
 ctttctgggt cgttgtgagt cttgtgtctg atatatgcag ccaaagtgtt ttcagtacag 300
 ccacctccca acaaagccca tggttccttg agtggttaact gcaggacatg cagtgcctgc 360
 tgacacgtga gcttcagctc atcccangca gtgtcatttc tgttcagag aagccaagct 420
 g 421

<210> 148
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 148
 acacaccact gttggccttc catctgggtt aagtcaactg tgagtagaaa ccgaagataa 60
 cagtttttga ttcataatgg ccttttcata ctccaagtac ttttgagcac agagcctctt 120
 gcttctgacc tggcacttgg aacacagata tatatatctt ttgttctgtc cctgggaaac 180
 tgatatttgt gtaagacaac caccagatat tttctctaata aaaatcttct aaaatta 237

<210> 149
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 149
 agagaaagtt aaagtgaat aatgtttgaa gacaataagt ggtggtgtat cttgtttcta 60
 ataagataaa cttttttgtc ttgtctttat cttattagg agttgtatgt cagtgtataa 120
 aacatactgt gtggtataac aggcttaata aattctttaa aaggagag 168

<210> 150
 <211> 68
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 22
 <223> n = A,T,C or G

<400> 150
 ggtggggttt ggcagagatg antttaagt ctgtggccag aagcgggggg ggggttttgt 60
 ggaaattt 68

<210> 151
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 151
 aggtgacacg tattcgggat gaaagtataa tagtcattcc ttcaaccott gcatttatgg 60
 actctggaaa tcgaagatcc acagtgagta aagatgttcg tccaaagaca aaaaatagaa 120
 acagctcaac aaagcgagag acaaaaaaac aaaatggcac tgtggctctg cctttgaagt 180
 ctgggctcca gcagagggct gatcttccca caggagacga gacggcctat gacactctcc 240
 agaactgttg tcagtgccga attttacttc ccttgcccat tctaaatgag caccaggaga 300
 agtgccagag gttagctcac caaaagaaac tccagtgggg ctggtgagat ggctcagcgg 360
 gtaagagcac ccgactgctc ttccgaaggc ccggagtcca aatcccagca accacatggt 420
 g 421

<210> 152
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 12, 31, 37, 58, 95, 102, 130, 151, 155, 211, 230, 244, 253,
 274, 288, 318, 322, 343, 355, 376, 395, 446, 449, 453, 470,
 475, 482, 484, 488, 497
 <223> n = A,T,C or G

<400> 152
 gaattcggca cnagctcgtg ccgccagggt nggtcctttt ttgctccgc ctgccanga 60
 cttectacag ctatcgccag tcgtcggcca cgtctcctt cngaggcctg ggccggcggt 120
 ccgtgcgttn tgggcggggg gtgcctttc nctcncccag cattcacggg ggctccggcg 180
 gccgcggcgt atcogtgtcc tcgcccgt ntgtgtctc gtctcctcn ggggcctacg 240
 gctngctgct acngcggcct cctgaccgt tccnacgggc tgctggcngg caacgagaag 300
 ctaaccatgc agaacctnaa cnaccgctg gcctcctacc tgnacaaggt gcgcncctg 360
 taggcggcca acggcnagct agaggtgaag atcncctact gggtagcaga agcagggggc 420
 tgggccctgc ccgactacag ccactnctnc acnaccatgc agtacctgcn ggganaagat 480
 tntngggngc caccatngag aactgca 507

<210> 153
 <211> 513
 <212> DNA
 <213> Homo sapiens

<400> 153
 gaattcggca cgaggtggct cagatgtcca ctactgggag tatggtcgaa ttgggaattt 60
 tattgtgaaa aagcccatgg tgctgggaca tgaagcttcg ggaacagtcg aaaaagtggg 120
 atcatcggtg aagcacctaa aaccagggtg tcgtgttgcc atcgagcctg gtgctccccg 180
 agaaaatgat gaattctgca agatgggccc atacaatctg tcacctcca tcttctctctg 240
 tgccgcgccc ccgatgacg ggaacctctg ccggttctat aagcacaatg cagccttttg 300
 ttacaagctt cctgacaatg tcacctttga ggaaggcgcc ctgatcgagc cactttctgt 360
 ggggatccat gcctgcagga gaggcggagt taccctggga cacaaggtcc ttgtgtgtgg 420
 agctgggcca atcgggatgg tcactttgct cgtggccaaa gcaatgggag cagctcaagt 480
 agtggtgact gatctgtctg ctacccgatt gtc 513

<210> 154
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 154
 ggcacgagct cgtgccgaat tcggcncgag cagacacaat ggtaagaatg gtgcctgtcc 60
 tgctgtctct gctgctgctt ctgggtcctg ctgtcccca ggagaacca gatggtcgtt 120
 actctctgac ctatatctac actgggctgt ccaagcatgt tgaagacgtc ccgcgctttc 180
 aggcccttgg ctactcaat gacctccagt tctttagata caacagtaaa gacaggaagt 240
 ctcagcccat gggactctgg agacagggtg aaggaatgga ggattggaag caggacagcc 300
 aacttcagaa ggccaggagg gacatcttta tggagaccct gaaagacatc gtggagtatt 360
 acaacgacag taacgggtct cacgtattgc aggggaaggtt tggttgtgag atcgagaata 420
 acagaagcag cggagcattc tggaaatatt actatgatgg aaaggactac attgaattca 480
 acaaagaaat cccagcctgg gtccct 507

<210> 155
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 27
 <223> n = A,T,C or G

<400> 155
 ggcacgagga gacctaaggg ctgagtntcg ggaacaggag aaagctctgt tggccctcca 60
 gcagcagtgt gctgagcagg cacaggagca tgagggtggag accaggggccc tgcaggacag 120
 ctggctgcag gcccaggcag tgctcaagga acgggaccag gagctggaag ctctgcgggc 180
 agaaagtcag tcttcccggc atcaggagga ggctgcccg gcccgggctg aggctctgca 240
 ggaggccctt ggcaaggctc atgctgccct gcaggggaaa gagcagcatc tctcgagca 300
 ggcagaattg agccgcagtc tggaggccag cactgcaacc ctgcaagcct ccctggatgc 360
 ctgccaggca cacagtcggc agctggagga ggctctgagg atacaagaag gtgagatcca 420
 ggaccaggat ctccgatacc aggaggatgt gcagcagctg cagcaggcac ttgcccagag 480
 ggatgaagag ctgagacatc agcagga 507

<210> 156
 <211> 509
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 156

```

ggcacgagga cagagagaac cctgtngaaa gagcgttacc aggaggtcct ggacaaacag 60
aggcaagtgg agaatacagct ccaagtgcaa ttaaagcagc ttcagcaaag gagagaagag 120
gaaatgaaga atcaccagga gatattaaag gctattcagg atgtgacaat aaagcgggaa 180
gaaacaaaga agaagataga gaaagagaag aaggagtttt tgcagaagga gcaggatctg 240
aaagctgaaa ttgagaagct ttgtgagaag ggcagaagag aggtgtggga aatggaactg 300
gatagactca agaatacagga tggcgaaata aataggaaca ttatggaaga gactgaacgg 360
gcctggaagg cagagatctt atcactagag agccggaaag agttactggt actgaaacta 420
gaagaagcag aaaaagagggc agaattgcac cttacttacc tcaagtcaac tcccccaaca 480
ctggagacag ttcgttccaa acaggagtg 509

```

```

<210> 157
<211> 507
<212> DNA
<213> Homo sapiens

```

```

<400> 157
ggcacgaggg cagccctcct accggcgcac gtgggtgccg cgctgctgcc tcccgtctgc 60
cctgaaccca gtgctgcag ccatggctcc cggccagctc gccttattta gtgtctctga 120
caaaaccggc cttgtggaat ttgcaagaaa cctgaccgct cttggtttga atctggtctg 180
ttccggaggg actgcaaaag ctctcaggga tgcctgctg gcagtcagag atgtctctga 240
gttgacggga tttcctgaaa tgttgggggg acgtgtgaaa actttgcac ctgcagtcga 300
tgctggaatc ctgctcgta atattccaga agataatgct gacatggcca gacttgattt 360
caatcttata agagttgttg cctgcaatct ctatccctt gttaaagacag tggcttctcc 420
aggtgtaagt gttgaggagg ctgtggagca aattgacatt ggtggagtaa ccttactgag 480
agctgcagcc aaaaaccacg ctcgagt 507

```

```

<210> 158
<211> 507
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 27, 428, 448, 449, 456, 462, 490, 492, 497, 498, 502, 503
<223> n = A,T,C or G

```

```

<400> 158
ggcacgagtc gagctgtgcc tattcngtc aatccaagag tgagtaatgt gaagtctgtc 60
tacaaaaccc acattgatgt cattcattat cggaaaacgg atgcaaaacg tctgcatggc 120
cttgatgaag aagcagaaca gaaacttttt tcagagaaac gtgtggaatt gcttaaggaa 180
ctttccagga aaccagacat ttatgagagg cttgcttcag ccttggctcc aagcatttat 240
gaacatgaag atataaagaa ggggaattttg cttcagctct ttggcgggac aaggaaggat 300
tttagtcaca ctggaagggg caaatctcgg gctgagatca acatcttgct gtgtggcgac 360
cctggtacca gcaagtccca gctgctgcag tacgtgtaca acctcgtccc caggggccag 420
tacacgtntg ggaagggctc cagtgcannn ggctnactg cntacgtaat gaaagaccct 480
gagacaagggn anctggnnct gnnacag 507

```

```

<210> 159
<211> 508
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```


<222> 6, 8, 25, 26

<223> n = A,T,C or G

<400> 159

```
ggcacnanaa accaggatta tggtnnggat ccaaagattg ctaatgcaat aatgaaggca 60
gcagatgagg tagctgaagg taaattaaat gatcattttc ctctcgtggg atggcagact 120
ggatcaggaa ctcagacaaa tatgaatgta aatgaagtca ttagcaatag agcaattgaa 180
atgttaggag gtgaacttgg cagcaagata cctgtgcatc ccaacgatca tggttaataaa 240
agccagagct caaatgatac ttttccaca gcaatgcaca ttgctgctgc aatagaagtt 300
catgaagtac tgttaccagg actacagaag ttacatgatg ctcttgatgc aaaatccaaa 360
gagtttgcac agatcatcaa gattggacgt actcatactc aggatgctgt tccacttact 420
cttgggcagg aatttagtgg ttatgttcaa caagtaaaat atgcaatgac aagaataaaa 480
gctgccatgc caagaatcta tgagctcg 508
```

<210> 160

<211> 508

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 27

<223> n = A,T,C or G

<400> 160

```
ggcacgagct tggagcaaag tcactctnaag gaattagagg acacacttca ggtagggcac 60
atacaagagt ttgagaaggt tatgacagac cacagagttt ctttggagga attaaaaaag 120
gaaaaccaac aaataattaa tcaaatacaa gaatctcatg ctgaaattat ccaggaaaaa 180
gaaaaacagt tacaggaatt aaaactcaag gtttctgatt tgtcagacac gagatgcaag 240
ttagagggtt aacttgcgtt gaaggaagca gaaactgatg aaataaaaat ttgctggaa 300
gaaagcagag cccagcagaa ggagaccttg aaatctcttc ttgaacaaga gacagaaaat 360
ttgagaacag aaattagtaa actcaaccaa aagattcagg ataataatga aaattatcag 420
gtgggcttag cagagctaag aactttaatg acaattgaaa aagatcagtg tatttccgag 480
ttaattagta gacatgaaga agaatcta 508
```

<210> 161

<211> 507

<212> DNA

<213> Homo sapiens

<400> 161

```
ggcacgagcg ctaccggcgc ctctctctgc gccactgagc cggagccggc ctgagcagcg 60
ctctcggttg cagtaccac tggaaggact taggcgctcg cgtggacacc gcaagccct 120
cagtagcctc ggcccaagag gctgtcttcc cactcgctag ccccgccggg ggtccgtgtc 180
ctgtctcggg ggccggaccc gggcccagac ccgagcagta gccggcgcca tgtcgggtgg 240
gggcatagac ctgggcttcc agagctgcta cgtcgctgtg gcccgcgccg gcggcatoga 300
gactatcgct aatgagtata gcgaccgctg cagcgcggct tgcatttctt ttggtoctaa 360
gaatcgttca attggagcag cagctaaaag ccaggtaatt tctaatagcaa agaacacagt 420
ccaaggattt aaaagattcc atggccgagc attctctgat ccatttgtgg aggcagaaaa 480
atctaaccct gcataatgata ttgtgca 507
```

<210> 162

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 27

<223> n = A,T,C or G

<400> 162

```
ggcacgagca gctgtgcacc gacatgntct cagtgtcctg agtaagacca aagaagctgg 60
caagatcctc tctaataatc ccagcaaggg actggccctg ggaattgcc aagcctggga 120
gctctacggc tcacccaatg ctctggtgct actgattgct caagagaagg aaagaaacat 180
atttgaccag cgtgccatag agaatgagct actggccagg aacatccatg tgatccgacg 240
aacatttgaa gatatctctg aaaaggggtc tctggaccaa gaccgaaggc tgtttgtgga 300
tggccaggaa attgctgtgg ttacttccg ggatggctac atgcctcgtc agtacagtct 360
acagaattgg gaagcacgtc tactgctgga gaggtcacat gctgccaaagt gccagacat 420
tgccacccag ctggctggga ctaagaaggt gcagcaggag ctaagcaggc cgggcatgct 480
ggagatgttg ctccctggcc agcctga                                     507
```

<210> 163

<211> 460

<212> DNA

<213> Homo sapiens

<400> 163

```
ggcacgagaa ataactttat ttcattgtgg gtcgcggttc ttgtttgtgg atcgtctgtga 60
tcgtcacttg acaatgcaga tcttcgtgaa gactctgact ggtaagacca tcaccctcga 120
ggttgagccc agtgacacca tcgagaatgt caaggcaaag atccaagata aggaaggcat 180
ccctcctgac cagcagaggc tgatctttgc tggaaaacag ctggaagatg ggcgcaccct 240
gtctgactac aacatccaga aagagtccac cctgcacctg gtgctccgtc tcagagggtg 300
gatgcaaate ttcgtgaaga cactcactgg caagaccatc acccttgagg tggagcccag 360
tgacaccatc gagaaogtca aagcaaagat ccaggacaag gaaggcattc ctctgacca 420
gcagagggtt atcttttgccg gaaagcagct ggaagatggg                                     460
```

<210> 164

<211> 462

<212> DNA

<213> Homo sapiens

<400> 164

```
ggcacgagcc ggatctcatt gccacgcgcc cccgacgacc gcccgacgtg cattcccgat 60
tccttttggg tccaagtcca atatggcaac tctaaaggat cagctgattt ataatcttct 120
aaaggaagaa cagaccccc agaatagat tacagttgtt ggggttggg ctggtggcat 180
ggcctgtgcc atcagtatct taatgaagga cttggcagat gaacttgctc ttgttgatgt 240
catcgaagac aaattgaagg gagagatgat ggatctccaa catggcagcc ttttccttag 300
aacaccaaag attgtctctg gcaaagacta taatgtaact gcaaactcca agctgggtcat 360
tatcacggct ggggcacgtc agcaagagg agaaagccgt ctttaatttg tccagcgtaa 420
cgtgaacatc tttaaattca tcattcctaa tgttgtaaaa ta                                     462
```

<210> 165

<211> 462

<212> DNA

<213> Homo sapiens

<400> 165

```

ggcacgagga agccatgagc agcaaagtct ctgcgcacac cctgtacgag gcggtgcggg 60
aagtccctgca cgggaaccag cgcaagcgcc gcaagttcct ggagacggtg gagttgcaga 120
tcagcttgaa gaactatgat ccccagaagg acaagcgctt ctcgggcacc gtcaggctta 180
agtcactcc ccgccctaag ttctctgtgt gtgtcctggg ggaccagcag cactgtgacg 240
aggctaaggc cgtggatata cccacatgg acatcgaggc gctgaaaaaa ctcaacaaga 300
ataaaaaact ggtcaagaag ctggccaaga agtatgatgc gtttttgcc tcagagtctc 360
tgatcaagca gattccacga atcctcggcc caggtttaaa taaggcagga aagttccctt 420
ccctgctcac acacaacgaa aacatggtgg ccaaagtgga tg 462

```

```

<210> 166
<211> 459
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 19, 27, 40, 42, 43, 46, 63, 65, 70, 85, 87, 94, 102, 103,
106, 144, 149, 166, 202, 209, 215, 216, 221, 310, 315, 332,
358, 366, 368, 379, 382, 384, 410, 424, 429, 434
<223> n = A,T,C or G

```

```

<400> 166
ggcacgagag ggacctgtnt gaatggntcc actagggtn anntgntctt tacttttaac 60
cantnaaatn gacctgcccg tgaanangcg ggcntgacac annaanacga gaagacccta 120
tggagcttta atttattaat gcanacagna cctaacaaac ccacangtcc taaactacca 180
agcctgcatt aaaaatttgc gntggggcna cctcnagca naaccaacc tccgagcaac 240
tcatgctaag acttcaccag tcaaagctga actactatac tcaattgatc caataacttg 300
accaacagan caagntaccc tagggataac ancacaatcc tattctagac cccttatnac 360
caatangntt tacacctcna tngnggaacc aggacatccg atggggcagn cgttattaaa 420
gttngttgnt aacnataaag tctacgtgat ctgagttag 459

```

```

<210> 167
<211> 464
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 17, 20, 22, 28, 33, 40, 45, 46, 55, 82, 99, 108, 115, 132,
150, 171, 182, 192, 244, 252, 276, 306, 313, 318, 320, 332,
352, 370, 376, 377, 378, 393, 395, 399, 403, 420, 434, 435,
455, 456
<223> n = A,T,C or G

```

```

<400> 167
gaattgggac caacganaan cntgcggntc ttnttttgcn tccanngccc agctnattgc 60
tcagacacac atggggaagg tnaaggtcgg gagtcaacng atttggtngt attgnagcgt 120
ttggtcacca gngctgcttt taactctggn aaagtggata ttgttgatcat naatgacccc 180
tncattgacc tnaactacat ggtttacatg ttccaatatg attccacca tggcaaattc 240
catngcaccg tnaaggetga gaacgggaag cttgtnatca atggaaatcc catcaccatc 300
tttcangaac ganatccntn caaaaatcaa anttgggggc gatgcttggc cncttgaagt 360
accgttcaan gggaannncc ccactttggc cgntntttnc aanccacccc caatttgggn 420
aaaaaaaaag gggnttttgg gggggggcct tttanntttt tttt 464

```

<210> 168
 <211> 462
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 11, 12, 18, 42, 47, 83, 84, 88, 91, 100, 123, 172, 174,
 177, 189, 192, 196, 199, 204, 210, 216, 218, 228, 231, 232,
 236, 240, 249, 251, 259, 263, 264, 269, 272, 275, 278, 280,
 287, 292, 294, 305, 310, 328, 329, 335, 345, 349, 357
 <223> n = A,T,C or G

<221> misc_feature
 <222> 375, 377, 446, 455
 <223> n = A,T,C or G

<400> 168
 ggcacgaggn nnaacctnecg gggctggggc agcacgcctt gngcaancct gcaactgcact 60
 gaagaccccg tgccggaagc cgnnggcngc nacatgcagn aactgaacca gctgggcgcg 120
 cancagttct cagacctgac agaggtgctt ttacacttcc taactgatcc anantangtg 180
 gaaatatnt tngttnatnt catntgaatn atccancncc aatcatanca nntttnattn 240
 cctcataanc nttgagaana gcnnccctnt gnttncanan ggtgctntga anangagtct 300
 cacangcaan caggtccaag cggatttntt aactntgggt cttantgang agaaagncac 360
 ttacttttct gaaancngga agcagaatgc tcccaccctt gctcgatggg ccatacgtca 420
 agactctgat gattaaccag ctttanatat ggaacnggaaa tt 462

<210> 169
 <211> 460
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 20, 64, 69, 71, 73, 91, 109, 113, 151, 237, 238, 241, 255,
 266, 269, 280, 290, 302, 312, 318, 329, 334, 355, 357, 359,
 376, 379, 380, 382, 397, 409, 410, 415, 422, 442, 446, 452
 <223> n = A,T,C or G

<400> 169
 ggcacgaggg acagcagaen agacagtcac agcagccttg acaaaacgtt cctggaactc 60
 aagntcttnt ncncaaagga ggacagagca nacagcagag accatggant ctncctcggc 120
 ccctccccac agatggtgca tcccctggca naggtcctg ctcacagcct cacttctaac 180
 cttctggaac ccgcccacca ctgccaagct cactattgaa tccacgccgt tcaatgnntc 240
 ntagggggaag gagngctttt ctactnttnc acaatctgan ccccttcttn tttggttact 300
 ancatggctc tncatgtnaa aatactgnaa tggntaacct gtcaaattta taggnantnt 360
 gctaattggg aaactnccnn tngtctaccc caggggnccc agattcctnn gttcncataa 420
 cnattaattt aacccctaata gncaancctt tngttaaaga 460

<210> 170
 <211> 508
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 27
 <223> n = A,T,C or G

<400> 170
 ggcacgaggg ggatttttag gtggtcnggt gtggtatcag gaataatgtg ggaggccaga 60
 ttgaagtcca ggccaggaac aatggtaatt gtgggactta agaaagtgtg agtacagctg 120
 aatgagccgg ggagcagaaa gtatatgcgt caggatatgag gaagaaaata gatttttgaa 180
 gttatgagaa atgtagagag tgagttgagc atagtttgtg attttgaggg cctctaacag 240
 tattaagca gcggcagcgg ctgcacacag acatgatggc taggctaaaa caggaaggtc 300
 aagttgtttg gacagaaagg ctacaggggt cagtcctggc tcttgtgtaa gaattctgac 360
 cacactaacc atgcctagga aggaaaggag ttgttctttt gtaagggatt gaggtttggg 420
 agattaatcg gacacgatca gcaggagag cacctgtgtt tttatgagaa ttatgctgag 480
 ataggtaaca gatgaggatg aaatttgg 508

<210> 171
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 171
 ggcacgagac cagccactag cgcagnctcg agcgatggcc tatgtccccg caccgggcta 60
 ccagcccacc tacaaccgga cgctgcctta ctaccagccc atcccgggag ggctcaacgt 120
 gggaaatgtct gtttacatcc aaggagtggc cagcagcac atgaagcggg tcttcgtgaa 180
 ctttgtgggt gggcaggatc cgggctcaga cgctgccttc cacttcaatc cgcggtttga 240
 cggctgggac aaggtggtct tcaacacggt gcaggggcgg aagtggggca gcgaggagag 300
 gaagaggagc atgcccttca aaaagggtgc cgcctttgag ctggtcttca tagtcctggc 360
 tgagcactac aaggtggtgg taaatggaaa tcccttctat gactacgggc accggttcc 420
 cctacagatg gtcacccacc tgcaagtggg tggggatctg caacttcaat caatcaactt 480
 catcggaggc cagcccctcc ggcccca 507

<210> 172
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 172
 ggcacgagct ggagtgtctg ctgccacccc ctcgctctct gcagaaatgt ctgtcaccta 60
 cgatgactct gtgggagtgg aagtgtccag cgacagcttc tgggaggttg ggaactacaa 120
 acggactgtg aagcggattg acgatggcca ccgcctgtgt ggtgacctca tgaactgtct 180
 gcatgagcgg gcacgcctcg agaaggcgta tgcacagcag ctactgagt gggcccagc 240
 ctggaggcag ctggtagaga agggaccaca gtatgggacc gtggagaagg cctggatagc 300
 tgtcatgtct gaagcagaga gggtagtgta actgcacctg gaagtgaagg catcactgat 360
 gaatgaagac tttgagaaga tcaagaactg gcagaaggaa gcctttcac 409

<210> 173
 <211> 409
 <212> DNA

<213> Homo sapiens

<400> 173

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ggcacgaggg cagctagagg aagagtccaa ggccaagaac gcaactggccc acgcccctgca 60
gtcagctcgc catgactgtg acctgctgcg ggaacagtat gaagaggagc aggaagccaa 120
ggctgagctg cagagggcca tgtccaaggc caacagcgag gtagcccagt ggaggacgaa 180
atatgagacg gatgccatcc agcgcacaga ggagctggaa gaggccaaga agaagctggc 240
tcagcgtctg caggatgctg aggaacatgt agaagctgtg aattccaaat gcgcttctct 300
tgaaaagacg aagcagcgac ttcagaatga agtgaggagc ctcatgattg acgtggagag 360
gtctaattgct gcttgcgctg cgcttgataa gaagcagagg aactttgac 409
```

<210> 174

<211> 407

<212> DNA

<213> Homo sapiens

<400> 174

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ggcacgagcc ggggcggggc ggggcgctcc ggctcgaggc attcgagct gcgggagccg 60
ggctggcagg agcaggatgg cggcggcggc ggctgcaggc gaggcgcgcc ggggtgctgg 120
gtacggcggc aggggcgctc tgggttctcg atgcgtgcag gcttttcggg cccgcaactg 180
gtgggttgcc agcgttgatg tgggtggagaa tgaagaggcc agcgttagca tcattgttaa 240
aatgacagac tcgttctactg agcaggctga ccaggtgact gctgaggttg gaaagctctt 300
gggtgaagag aagggtgatg caattctttg cgttgctgga ggatgggccc ggggcaatgc 360
caaatccaag tctctcttta agaactgtga cctgatgtgg aagcaga 407
```

<210> 175

<211> 407

<212> DNA

<213> Homo sapiens

<400> 175

```
ggcacgagct tgcccgtcgg tgcctagctc gctcgggtgc cgtcgtcccc ctccatggcg 60
ctcttcgtgc ggctgctggc tctcgccctg gctctggccc tgggccccgc cgcgaccctg 120
gcgggtcccc ccaagtcgcc ctaccagctg gtgctgcagc acagcaggct ccggggcgcc 180
cagcacggcc ccaacgtgtg tgctgtgcag aaggttattg gcactaatag gaagtacttc 240
accaactgca agcagtggta ccaaaggaaa atctgtggca aatcaacagt catcagctac 300
gagtgtgtc ctggatatga aaaggtccct ggggagaagg gctgtccagc agccctacca 360
ctctcaaacc ttacagagac cctgggagtc gttggatcca ccaccac 407
```

<210> 176

<211> 409

<212> DNA

<213> Homo sapiens

<400> 176

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ggcacgagtg gtgccccaac gggaccatgc cctcctggag gagcagagca agcagcagtc 60
caacgagcac ctgcgcgcgc agttcgccag ccaggccaat gttgtggggc cctggatcca 120
gaccaagatg gaggagatcg ggcgcattct cattgagatg aacgggaccc tggaggacca 180
gctgagccac ctgaagcagt atgaacgcag catcgtggac tacaagccca acctggacct 240
gctggagcag cagcaccagc tcatccagga ggccctcatc ttcgacaaca agcacacca 300
ctataccatg gagcacatcc gcgtgggctg ggagcagctg ctaccacca ttgccgcgac 360
catcaacgag gtggagaacc agatcctcac ccgcgacgcc aagggcac 409
```

<210> 177

```
<210> 181
<211> 411
<212> DNA
<213> Homo sapiens
```

<400> 181
 ggcacgagggc gggacagggc gaagcggcct gcgcccacgg agcgcgcgac actgcccgga 60
 agggaccgcc acccttgccc cctcagctgc cactcgtga ttccagcgg cctccgcgcg 120
 cgcacgatgc cctcgccac cagccacagc gggagcggca gcaagtcgtc cggaccgcca 180
 ccgccgtcgg gttcctccgg gaggtagggc gccgcgggag ccggggccgc cgcgcgggct 240
 tctcagcacc ccgcaaccgg caccggcgct gtccagaccg aggccatgaa gcagattctc 300
 ggggtgatcg acaagaaact tcggaacctg gagaagaaaa agggtaagct tgatgattac 360
 caggaacgaa tgaacaaagg ggaaaggctt aatcaagatc agctggatgc c 411

<210> 182
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 182
 ggcacgagcc gacatggagc tgttcctcgc gggccgcggc gtgctgggtca ccggggcagg 60
 caaagggtata gggcgcgga cgggtccaggc gctgcacgcg acgggcgcgc ggggtgggtgc 120
 tgtgagccgg actcaggcgg atcttgacag ccttgctcgc gagggtcccg ggatagaacc 180
 cgtgtgcgtg gacctgggtg actgggaggc caccgagcgg gcgctgggca gcgtgggccc 240
 cgtggacctg ctgggtgaaca acgcccgtgt cgccctgctg cagcccttcc tggaggtcac 300
 caaggaggcc ttgacagat cctttgaggt gaacctgcgt gcggtcatcc aggtgtcgca 360
 gattgtggcc aggggcttaa tagcccgggg agtcccaggg gccatcgtga a 411

<210> 183
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 183
 ggcacgagcc tacactctgg ccagagatac cacagtcaaa cctggagcca aaaaggacac 60
 aaaggactct cgacccaaac tgcccagac cctctccaga ggttgggtg accaactcat 120
 ctggactcag acatatgaag aagctctata taaatccaag acaagcaaca aacccttgat 180
 gattattcat cacttggtg agtgcacaca cagtcaagct ttaaagaaag tgtttgctga 240
 aaataaagaa atccagaaat tggcagagca gtttgctctc ctcaatctgg tttatgaaac 300
 aactgacaaa cacccttctc ctgatggcca gtatgtcccc aggattatgt ttgttgaccc 360
 atctctgaca gttagagccg atatcactgg aagatattca aatcgtctc 409

<210> 184
 <211> 410
 <212> DNA
 <213> Homo sapiens

<400> 184
 ggcacgaggt cattccagca ccaacaggat ccaagccaga ttgattgggc tgcattggcc 60
 caagcttgga ttgcccacaa agaagcttca ggacagcaaa gcatggtaga acaaccacca 120
 ggaatgatgc caaatggaca agatattgtc acaatggaat ctggtccaaa caatcatggg 180
 aatttccaag gggattcaaa cttcaacaga atgtggcaac cagaatgggg aatgcatcag 240
 caacccccac acccccctcc agatcagcca tggatgccac caacaccagg cccaatggac 300
 attgttctc cttctgaaga cagcaacagt caggacagtg gggaatttgc ccctgacaac 360
 aggcatatat ttaaccagaa caatcacaac tttggtggac caccgataa 410

<210> 185
 <211> 411

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 366
<223> n = A,T,C or G

<400> 185
ggcagcagca cagatgtagt tttctctgcg cgtgtgcggt ttccctcctc ccccgccctc 60
agggtccacg gccaccatgg cgtattaggg gcagcagtcg ctgcggcagc attggccttt 120
gcagcggcgg cagcagcacc aggctctgca gcggcaaccc ccagcggctt aagccatggc 180
gcttctcacg gcattcagca gcagcgttgc tgtaaccgac aaagacacct tcgaattaag 240
cacattcctc gattccagca aagcacccga acatgaccga aatgagcttc ctgagcagcg 300
agggtgttggg gggggacttg atgtccccct tcgaccgcgc gggtttgggg gctgaagaaa 360
gcctangtct cttagatgat tacctggagg tggccaagca cttcaaacct c 411

<210> 186
<211> 410
<212> DNA
<213> Homo sapiens

<400> 186
ggcagcagct tctagtcccg ccatggccgc tctcaccgcg gacccccagt tccagaagct 60
gcagcaatgg taccgcgagc accgctccga gctgaacctg cgccgcctct tcgatgccaa 120
caaggaccgc ttcaaccact tcagcttgac cctcaacacc aacctggggc atatcctggg 180
ggattactcc aagaacctgg tgacggagga cgtgatgcgg atgctggtgg acttggccaa 240
gtccaggggc gtggaggccg cccgggagcg gatgttcaat ggtgagaaga tcaactacac 300
cgagggtcga gccgtgctgc acgtggctct gcggaaccgg tcaaacacac ccattcctggg 360
agacggcaag gatgtgatgc cagaggtcaa caaggttctg gacaagatga 410

<210> 187
<211> 506
<212> DNA
<213> Homo sapiens

<400> 187
ctttcgtggc tcaactccctt tcctctgctg ccgctcggtc acgcttgtgc ccgaaggagg 60
aaacagtgc agacctggag actgcagttc tctatccttc acacagctct ttcaccatgc 120
ctggatcact tcctttgaat gcagaagctt gctggccaaa agatgtggga attggtgccc 180
ttgagatcta ttttccttct caatatgttg atcaagcaga gttggaaaaa tatgatggtg 240
tagatgctgg aaagtatacc attggcttgg gccaggccaa gatgggcttc tgcacagata 300
gagaagatat taactctctt tgcattgact tgggttcagaa tcttatggag agaaataacc 360
tttcctatga ttgcattggg cggctggaag ttggaacaga gacaatcatc gacaaatcaa 420
agtctgtgaa gactaatttg atgcagctgt ttgaagagtc tgggaatata gatatagaag 480
gaatcgacac aactaatgca tgctat 506

<210> 188
<211> 506
<212> DNA
<213> Homo sapiens

<400> 188
gccacagagg cggcggagag atggccttca gcggttccca ggctccctac ctgagtcacg 60

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ctgtccctt  ttctgggact  attcaaggag  gtctccagga  cggacttcag  atcactgtca  120
atgggaccgt  tctcagctcc  agtggaaacca  ggtttgctgt  gaactttcag  actggcttca  180
gtggaaatga  cattgccttc  cacttcaacc  ctcggtttga  agatggaggg  tacgtggtgt  240
gcaacacgag  gcagaacgga  agctgggggc  ccgaggagag  gaagacacac  atgcctttcc  300
agaaggggat  gccctttgac  ctctgcttcc  tgggtgcagag  ctcagatttc  aaggtgatgg  360
tgaacgggat  cctcttcgtg  cagtacttcc  accgcgtgcc  cttccaccgt  gtggacacca  420
tctccgtcaa  tggtctctgt  cagctgtcct  acatcagctt  ccagcctccc  ggcgtgtggc  480
ctgccaaccc  ggctcccatt  acccag                                     506

```

<210> 189

<211> 399

<212> DNA

<213> Homo sapiens

<400> 189

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ctggacagga  gaagagcctg  gctgctgaag  gcagggctga  cagcaccacg  ggcagcattg  60
ctggagcccc  agaggatgaa  agatcgcaga  gcacagcccc  ccaggcacca  gagtgcttcg  120
accctgcggg  accggtggg  ctctgaggc  cgacatctgg  cctttcccag  ggcccaggaa  180
aggaaacctt  ggaaagtgt  ctaatcgctc  tagactctga  aaaacccaag  aaacttcgct  240
tccacccaaa  gcagctgtac  ttctctgcca  ggcaggggtg  gctgcagaag  gtgcttctca  300
tgctggttga  tggaattgat  cccaacttca  aaatggagca  ccaaagtaag  cgttcccat  360
tacaatgctgc  tgcgagggt  ggccacgtgg  acatctgcc                                     399

```

<210> 190

<211> 401

<212> DNA

<213> Homo sapiens

<400> 190

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cggcgacggt  ggtggtgact  gagcggagcc  cggtgacagg  atgttggtgt  tggattagg  60
agatctgcac  atccacacc  ggtgcaacag  tttgccagct  aaattcaaaa  aactcctgg  120
gccaggaaaa  attcagcaca  ttctctgcac  aggaaacctt  tgcaccaaag  agagttatga  180
ctatctcaag  actctggctg  gtgatgttca  tattgtgaga  ggagacttcg  atgagaatct  240
gaattatcca  gaacagaaag  ttgtgactgt  tggacagttc  aaaattgggtc  tgatccatgg  300
acatcaagtt  attccatggg  gagatatggc  cagcttagcc  ctgttgacaga  ggcaatttga  360
tgtggacatt  cttatctcgg  gacacacaca  caaatttgaa  g                                     401

```

<210> 191

<211> 406

<212> DNA

<213> Homo sapiens

<400> 191

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tggcagccta  agccgtggga  gggttccagt  cgagaatggg  aagatgaaag  acttcagatg  60
gaacagaaat  aaatgccttt  ttgacaaac  gcagcagtg  gtgcctctag  cttgcaagag  120
cgttactccc  cttcatagct  ttaaaagggt  ttcgcactgc  gtgcagttag  agtagctaaa  180
tcttggtgta  cgctccacaa  acacttgtaa  gaattttgca  gagaaagata  accgttgcca  240
cccaatgccc  ccacaggcca  ttctactccc  cagtacctct  tagggtggga  gaaatggtga  300
agagttgttc  ctacaacttg  ctaacctagt  ggacagggta  gtagattagc  atcatccgga  360
tagatgtgaa  gaggacggct  gtttgataa  taattaagga  taaaat                                     406

```

<210> 192

<211> 316

<212> DNA

<213> Homo sapiens

<400> 192

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ccccggggagg cccctgggcat aaaacttttaa attttactag tgttacttaa tgtatattct 60
aaaaagagaa tgcagtaact aatgccctaa atgtttgatc tctgtttgtc attacttttt 120
caaaattatt tttttctgta aagtataata tataaaactt cttgcttaaa ttgaatttct 180
atattagtgg ttaattgcag tttattaaag ggatcattat cagtaatttc atagcaactg 240
ttctagtgtt ttgtgttttt aaaacagaat taggaatttg agatatctga ttatattttt 300
catatgaatc acagac                                     316

```

<210> 193

<211> 146

<212> DNA

<213> Homo sapiens

<400> 193

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gaaacatgga ctgcccccta aattttgact gtcctaaaaa cctattttctg atttataata 60
tgctgcctga taaagtgaca ctagatgtac cagctgagtg tttaatcttc ccatcacaga 120
tcagatttga gcattaacag gtattt                                     146

```

<210> 194

<211> 405

<212> DNA

<213> Homo sapiens

<400> 194

```

cggatgtgct cactgacatt ctactccaag tcggagatgc agatccactc caagtcacac 60
accgagacca agccccacaa gtgcccacat tgctccaaga ccttcgcca cagctcctac 120
ctggcccagc acatccgtat acactcaggg gctaagccct acagttgtaa cttctgtgag 180
aaatcccttc gccagctctc ccaccttcag cagcacaccc gaatccacac tggatgata 240
ccatacaaat gtgcacaccc aggctgtgag aaagccttca cacaactctc caatctgcag 300
tcccacagac ggcaacacaa caaagataaa cccttcaagt gccacaactg tcatcgggcg 360
tacacggatg cagcctcact agaggtgcac ctgtctacgc acaca                                     405

```

<210> 195

<211> 421

<212> DNA

<213> Homo sapiens

<400> 195

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agaattcggc acgagctact ccttgcgcg c tggcactccg cagcctttta gggtcgcgcg 60
ggggccaggc aagagttagc catgaagagc ctcaagtcgc gcctgaggag gcaggacgtg 120
cccggccccg cgtcgtctgg cgccgcgcgc gccagcgcg atgcagcaga ttggaataaa 180
tatgatgacc gattgatgaa agcagcagaa aggggggatg tagaaaaagt gacgtcaatc 240
cttgctaaaa aggggggtcaa tccaggcaaa ctagatgtgg aaggcagatc tgtcttccat 300
gttgtgacct caaaggggaa tcttgagtgt ttgaatgcca tccttataca tggagttgat 360
attacaacca gtgacactgc agggagaaat gctcttcacc tggctgctaa gtatggacat 420
g                                     421

```

<210> 196

<211> 476

<212> DNA

<213> Homo sapiens

<400> 196

```

agaattgatac tatagatttta atgcaatgcc tactaaaatc ccagtagcat tttttacagg 60
catagacaat agacatagcc aaaacttatt ctaaaatata tatgaagatg cacaggccct 120
agttatacaa tcttgacaaa gaagaataaa gtgggaagaa tctatttgat ttttaaggctt 180
accatgtaac tacagtcatac aagagagtgt ggtatcggca gacggtcaga catacagatc 240
aatggaatgt aacagaggac ccagaaatag gccacacag atatgctcaa tggatatttg 300
acaagcgtgc aaaacaattc aatggaagaa taagctttca aaaaaatggc gttggagcaa 360
ccggacatcc ataggaaaaa atgaacccat acctaaacca taaaccttat ataaaaataa 420
acacaaaaatg aatcatagggc ttaaatgtaa gctataaaac ttttagagaa aaacac 476

```

<210> 197

<211> 503

<212> DNA

<213> Homo sapiens

<400> 197

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tagccctcgg tgaagcccca gaccacagct atgagtcctt tcgtgtgacg tctgcgcaga 60
aacatgttct gcatgtccag ctcaaccggc ccaacaagag gaatgccatg aacaaggctt 120
tctggagaga gatggtagag tgcttcaaca agatttcgag agacgctgac tgtcggggcg 180
tggtgatctc tgggtgcagga aaaatgttca ctgcaggtat tgacctgatg gacatggctt 240
cggacatcct gcagcccaaa ggagatgatg tggcccgat cagctggtac ctccgtgaca 300
tcatcactcg ataccaggag accttcaacg tcatcgagag gtgccccaaag cccgtgattg 360
ctgccgtcca tgggggctgc attggcggag gtgtggacct tgtcaccgcc tgtgacatcc 420
ggtagctgtg ccaggatgct ttcttccagg tgaaggaggt ggacgtgggt ttggctgccc 480
atgtaggaac actgcagcgc ctg 503

```

<210> 198

<211> 168

<212> PRT

<213> Homo sapiens

<400> 198

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Phe Val Ala His Ser Leu Ser Ser Ala Ala Ala Arg Ser Arg Leu Cys
 1           5           10           15
Pro Lys Glu Glu Thr Val Thr Asp Leu Glu Thr Ala Val Leu Tyr Pro
          20           25           30
Ser His Ser Ser Phe Thr Met Pro Gly Ser Leu Pro Leu Asn Ala Glu
          35           40           45
Ala Cys Trp Pro Lys Asp Val Gly Ile Val Ala Leu Glu Ile Tyr Phe
          50           55           60
Pro Ser Gln Tyr Val Asp Gln Ala Glu Leu Glu Lys Tyr Asp Gly Val
65          70           75           80
Asp Ala Gly Lys Tyr Thr Ile Gly Leu Gly Gln Ala Lys Met Gly Phe
          85           90           95
Cys Thr Asp Arg Glu Asp Ile Asn Ser Leu Cys Met Thr Val Val Gln
          100          105          110
Asn Leu Met Glu Arg Asn Asn Leu Ser Tyr Asp Cys Ile Gly Arg Leu
          115          120          125
Glu Val Gly Thr Glu Thr Ile Ile Asp Lys Ser Lys Ser Val Lys Thr
          130          135          140
Asn Leu Met Gln Leu Phe Glu Glu Ser Gly Asn Thr Asp Ile Glu Gly
145          150          155          160
Ile Asp Thr Thr Asn Ala Cys Tyr
          165

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<210> 199
 <211> 168
 <212> PRT
 <213> Homo sapiens

<400> 199
 His Arg Gly Gly Gly Glu Met Ala Phe Ser Gly Ser Gln Ala Pro Tyr
 1 5 10 15
 Leu Ser Pro Ala Val Pro Phe Ser Gly Thr Ile Gln Gly Gly Leu Gln
 20 25 30
 Asp Gly Leu Gln Ile Thr Val Asn Gly Thr Val Leu Ser Ser Ser Gly
 35 40 45
 Thr Arg Phe Ala Val Asn Phe Gln Thr Gly Phe Ser Gly Asn Asp Ile
 50 55 60
 Ala Phe His Phe Asn Pro Arg Phe Glu Asp Gly Gly Tyr Val Val Cys
 65 70 75 80
 Asn Thr Arg Gln Asn Gly Ser Trp Gly Pro Glu Glu Arg Lys Thr His
 85 90 95
 Met Pro Phe Gln Lys Gly Met Pro Phe Asp Leu Cys Phe Leu Val Gln
 100 105 110
 Ser Ser Asp Phe Lys Val Met Val Asn Gly Ile Leu Phe Val Gln Tyr
 115 120 125
 Phe His Arg Val Pro Phe His Arg Val Asp Thr Ile Ser Val Asn Gly
 130 135 140
 Ser Val Gln Leu Ser Tyr Ile Ser Phe Gln Pro Pro Gly Val Trp Pro
 145 150 155 160
 Ala Asn Pro Ala Pro Ile Thr Gln
 165

<210> 200
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 200
 Gly Gln Glu Lys Ser Leu Ala Ala Glu Gly Arg Ala Asp Thr Thr Thr
 1 5 10 15
 Gly Ser Ile Ala Gly Ala Pro Glu Asp Glu Arg Ser Gln Ser Thr Ala
 20 25 30
 Pro Gln Ala Pro Glu Cys Phe Asp Pro Ala Gly Pro Ala Gly Leu Val
 35 40 45
 Arg Pro Thr Ser Gly Leu Ser Gln Gly Pro Gly Lys Glu Thr Leu Glu
 50 55 60
 Ser Ala Leu Ile Ala Leu Asp Ser Glu Lys Pro Lys Lys Leu Arg Phe
 65 70 75 80
 His Pro Lys Gln Leu Tyr Phe Ser Ala Arg Gln Gly Glu Leu Gln Lys
 85 90 95
 Val Leu Leu Met Leu Val Asp Gly Ile Asp Pro Asn Phe Lys Met Glu
 100 105 110
 His Gln Ser Lys Arg Ser Pro Leu His Ala Ala Ala Glu Ala Gly His
 115 120 125

Val Asp Ile Cys
130

<210> 201
<211> 120
<212> PRT
<213> Homo sapiens

<400> 201
Met Leu Val Leu Val Leu Gly Asp Leu His Ile Pro His Arg Cys Asn
1 5 10 15
Ser Leu Pro Ala Lys Phe Lys Lys Leu Val Pro Gly Lys Ile Gln
20 25 30
His Ile Leu Cys Thr Gly Asn Leu Cys Thr Lys Glu Ser Tyr Asp Tyr
35 40 45
Leu Lys Thr Leu Ala Gly Asp Val His Ile Val Arg Gly Asp Phe Asp
50 55 60
Glu Asn Leu Asn Tyr Pro Glu Gln Lys Val Val Thr Val Gly Gln Phe
65 70 75 80
Lys Ile Gly Leu Ile His Gly His Gln Val Ile Pro Trp Gly Asp Met
85 90 95
Ala Ser Leu Ala Leu Leu Gln Arg Gln Phe Asp Val Asp Ile Leu Ile
100 105 110
Ser Gly His Thr His Lys Phe Glu
115 120

<210> 202
<211> 135
<212> PRT
<213> Homo sapiens

<400> 202
Arg Met Cys Ser Leu Thr Phe Tyr Ser Lys Ser Glu Met Gln Ile His
1 5 10 15
Ser Lys Ser His Thr Glu Thr Lys Pro His Lys Cys Pro His Cys Ser
20 25 30
Lys Thr Phe Ala Asn Ser Ser Tyr Leu Ala Gln His Ile Arg Ile His
35 40 45
Ser Gly Ala Lys Pro Tyr Ser Cys Asn Phe Cys Glu Lys Ser Phe Arg
50 55 60
Gln Leu Ser His Leu Gln Gln His Thr Arg Ile His Thr Gly Asp Arg
65 70 75 80
Pro Tyr Lys Cys Ala His Pro Gly Cys Glu Lys Ala Phe Thr Gln Leu
85 90 95
Ser Asn Leu Gln Ser His Arg Arg Gln His Asn Lys Asp Lys Pro Phe
100 105 110
Lys Cys His Asn Cys His Arg Ala Tyr Thr Asp Ala Ala Ser Leu Glu
115 120 125
Val His Leu Ser Thr His Thr
130 135

<210> 203
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 203
 Leu Leu Leu Ala Arg Trp His Ser Ala Ala Phe Lys Val Arg Ala Gly
 1 5 10 15
 Ala Arg Gln Glu Leu Ala Met Lys Ser Leu Lys Ser Arg Leu Arg Arg
 20 25 30
 Gln Asp Val Pro Gly Pro Ala Ser Ser Gly Ala Ala Ala Ser Ala
 35 40 45
 His Ala Ala Asp Trp Asn Lys Tyr Asp Asp Arg Leu Met Lys Ala Ala
 50 55 60
 Glu Arg Gly Asp Val Glu Lys Val Thr Ser Ile Leu Ala Lys Lys Gly
 65 70 75 80
 Val Asn Pro Gly Lys Leu Asp Val Glu Gly Arg Ser Val Phe His Val
 85 90 95
 Val Thr Ser Lys Gly Asn Leu Glu Cys Leu Asn Ala Ile Leu Ile His
 100 105 110
 Gly Val Asp Ile Thr Thr Ser Asp Thr Ala Gly Arg Asn Ala Leu His
 115 120 125
 Leu Ala Ala Lys Tyr Gly His
 130 135

<210> 204
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 204
 Ala Leu Gly Glu Ala Pro Asp His Ser Tyr Glu Ser Leu Arg Val Thr
 1 5 10 15
 Ser Ala Gln Lys His Val Leu His Val Gln Leu Asn Arg Pro Asn Lys
 20 25 30
 Arg Asn Ala Met Asn Lys Val Phe Trp Arg Glu Met Val Glu Cys Phe
 35 40 45
 Asn Lys Ile Ser Arg Asp Ala Asp Cys Arg Ala Val Val Ile Ser Gly
 50 55 60
 Ala Gly Lys Met Phe Thr Ala Gly Ile Asp Leu Met Asp Met Ala Ser
 65 70 75 80
 Asp Ile Leu Gln Pro Lys Gly Asp Asp Val Ala Arg Ile Ser Trp Tyr
 85 90 95
 Leu Arg Asp Ile Ile Thr Arg Tyr Gln Glu Thr Phe Asn Val Ile Glu
 100 105 110
 Arg Cys Pro Lys Pro Val Ile Ala Ala Val His Gly Gly Cys Ile Gly
 115 120 125
 Gly Gly Val Asp Leu Val Thr Ala Cys Asp Ile Arg Tyr Cys Ala Gln
 130 135 140
 Asp Ala Phe Phe Gln Val Lys Glu Val Asp Val Gly Leu Ala Ala His
 145 150 155 160
 Val Gly Thr Leu Gln Arg Leu
 165

<210> 205
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 205
 aaatattggga tcatcgctg ttctgaaaac tagatgcacc aaccgtatca ttatttgttt 60
 gaggaaaaaa agaaatctgc attttaattc atgttgggtca aagtcgaatt actatctatt 120
 tatcttatat cgtagatctg ataaccctat ctaaaagaaa gtcacacgct aaatgtattc 180
 ttacatagtg cttgtatcgt tgcatttggt ttaatttggt gaaaagtatt gtatctaact 240
 tgtattactt tggtagtttc atctttatgt attattgata ttgttaattt tctcaactat 300
 aacaatgtag ttacgctaca acttgccata aacattcaaa cttgttttct tttttctggt 360
 gttttctttg ttaattcatt t 381

<210> 206
 <211> 514
 <212> DNA
 <213> Homo sapiens

<400> 206
 aaaagtaaat tgcataaaat tacatccaat ttctttctct aaaccaacat attcttcacc 60
 ttcacaaaagc aaacacatgg tgcactgaaa ccgaggtgtt accagcttta catactgttc 120
 tgccattttgt ggggggtgca accacaacat aagtcagaaa aaaagctatc cagcttttcg 180
 tggaaatctgg tgaagtttac acttagcgat aagcctctaa gcctgaactt agcagggtta 240
 gcaaaaacttt atttatctcc taactcctat tatttttagaa tggttttcaa aataatactg 300
 caagttccta attgaaatac aaaacagaa aaaaagctgt gagaaatctt tttttttctt 360
 tggctcctta aagacttggg ataatttata ttatgtttgc atacatttta ccttctacat 420
 tttgatgtac ttgctcttga aagcactaga acaattaat tgaaataaaa cctctctgaa 480
 accatttgaa tctttgatcc taccatagag tttt 514

<210> 207
 <211> 522
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 24
 <223> n = A,T,C or G

<400> 207
 caagcttttg gtgcatagca gccngcctgg aagcattctg agtgctctgt ctgccctggt 60
 gggtttcatt atcctgtctg tcaaacaggc caccttaaat cctgcctcac tgcagtgtga 120
 gttggacaaa aataatatac caacaagaag ttatgtttct tacttttatc atgattcact 180
 ttataccacg gactgctata cagccaaagc cagtctggct ggaactctct ctctgatgct 240
 gatttgact ctgctggaat tctgcctagc tgtgctcact gctgtgctgc ggtggaaaca 300
 ggcttactct gacttccctg ggagtgtaact tttcctgcct cacagttaca ttggtaattc 360
 tggcatgtcc tcaaaaatga ctcatgactg tggatatgaa gaactattga cttcttaaga 420
 aaaaagggag aaatatatac cagaaagttg attcttatga taatatggaa aagttaacca 480
 ttatagaaaa gcaaagcttg agtttcctaa atgtaagctt tt 522

<210> 208

<211> 278
 <212> DNA
 <213> Homo sapiens

<400> 208
 aaaatgcact accccttttt tccaacacgg agcttaaaac aaattaatga aagagtggaa 60
 aattcaaaat aagggcaaga gataagggtt tttttttttt tcctttaaga tagactcagg 120
 ataggtagat agctttcact gatgtagatg tggataaaat tattacttca ggaaaaaaat 180
 tcccaaacat cttatgaaaa agtatacaac tctacttcaa aatatgctat ttactcactg 240
 ccaaagacag ttttatttga aatcttggtt ctgtattt 278

<210> 209
 <211> 234
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 209
 cctcccaaatt ttagcagggtg ctgggnagga ccctagggag tggtttatgg gggctagctg 60
 gtgaaactgc cctttccttt ctgttctatg agtgtgatgg tgtttgagaa aatgtggggc 120
 tatggttcag gcgcacttca catgtgcaaa gatggagaaa gcactcacct acacgttttag 180
 gctcagaatg ttgattgaaa cattttgaat gatcaaaaat aaaatgttat tttt 234

<210> 210
 <211> 186
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 25
 <223> n = A,T,C or G

<400> 210
 aaaataactg atggcaaaat aaaaanattta catcacatca tactgtgtaa acatgtaagg 60
 tctctgtaca aagaaatata catgcaaaat aatgtaaaaa tttaactgaa ataataaaaag 120
 aaacaatata caaataaaaa ttatgaggtt acgaatacac atccagtttc gaatccaatt 180
 tctttt 186

<210> 211
 <211> 403
 <212> DNA
 <213> Homo sapiens

<400> 211
 aaaaattggt aaaatattta agtacaaaat aagtagcttc cagcgagggtt tttataccat 60
 agtaagagca cacaatagat attactagca cacatgggtt atctgggagc gctatagcta 120
 caataaacct aattatggaa cagaaatttg cattctgttt ccagtgtctac tacactccta 180
 ctttctcaaa agtctgtctt attaatatca gctcagtga gtttactatg aatagtttat 240
 gtctgtgatg caaagcatta attgttctct ttttaciaac atacattttt ttcataagga 300

agactggggg aaaaccacaga aacatacaga gaaaaggaaa gcatcatcaa atatatgtta 360
 aaaattaaga tgatgtttac tactagtcac cctacaacaa ttt 403

<210> 212
 <211> 345
 <212> DNA
 <213> Homo sapiens

<400> 212
 cctcttttatg agttcattac tgctgttcag tctcggcaca cagacacccc tgtgcaccgg 60
 ggtgtacttt ctactctgat cgctgggcct gtggttgaga taagtcacca gctacggaag 120
 gtttctgacg tagaagagct taccctcca gagcatcttt ctgatcttcc accattttca 180
 aggtgtttta taggaataat aataaagtct tcgaatgtgg tcaggtcatt tttggatgaa 240
 tttaaaggcat gtgtggcttc taatgatatt gaaggcattg tgtgcctcac ggctgctgtg 300
 catattatcc tggttattaa tgcaggtaaa cataaaagct caaaa 345

<210> 213
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 213
 aaaatgtttt attattttga aaataatgtt gtaattcatg ccagggactg acaaaagact 60
 tgagacagga tggttattct tgtcagctaa ggtcacattg tgcctttttg accttttctt 120
 cctggactat tgaaatcaag cttattggat taagtgatat ttctatagcg attgaaaggg 180
 caatagttaa agtaatgagc atgatgagag tttctgttaa tcatgtatta aaactgattt 240
 ttagctttac aaatatgtca gtttgcagtt atgcagaatc caaagtaaat gtcctgctag 300
 ctagttaagg attgtttt 318

<210> 214
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 214
 aaacacatct ggttctggca gcaagttata ttatgcattt agagcaatag gtgccctgaa 60
 agttattgtt gctttttttg tttttttttt cagtttgtgc gtgtcacttg aatcagaaac 120
 caaacacatg taaaaaata tcatcctcaa tgcccccat taactctctc tccagaaggt 180
 gacaatgtta gtgaactcaa gactctcact gatgatggta tttacaatg aaaacacaag 240
 gaaacccttt gaggtccaat tttcacatca tattctccaa atagtaaaat agcagctcta 300
 catgttgatg aaaagaaatt tcaattttctt cctattttgtt tttactcata tcaacattaa 360
 tatgtatctg gatattattaa tttccaaaaa gaaaatttta gttaccaaatt atttcagaaa 420
 ttaataaaag cattatata atgtaattag cacttatcta cc 462

<210> 215
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 215
 aaacttttct gaaacgatta gctgtagcca aattatgtgg ttacgttttg ctacattaga 60
 atttgaaaat gcaatatgtg tggtaaactct actgtttgaa atttataatg gtctctgata 120
 tgattcgaat tttggtaact tttgaaagtt attttcccc tttagtcag gatttctatt 180
 tgttttttta tgtaattttt tctagaaagc atctgaattg actaggcttt tcctatataa 240

aaaactcaaa acttgtaac tctgtacttt aataaaattt 280

<210> 216
<211> 210
<212> DNA
<213> Homo sapiens

<400> 216
aaaatctctg gcttcaaagt ttcttgggga aaggtcgggt tacctcacat tttttgtttc 60
cattagtaat attctaggta cctcacaaaa tgtattatgg tgccatggct gttagttttt 120
agtgagtgct gtaggattaa ttcgaaaata ggcagaattc cattcctccc aaggtggcaa 180
aaattagcta tactgatgta attgtcattt 210

<210> 217
<211> 398
<212> DNA
<213> Homo sapiens

<400> 217
ctggagctgc tagaacttga gatgagggca agagcgatta aagccctaata gaaagctgggt 60
gatataaaaa agccagccta ggtattttaac ttgattttga atttttaggta tgtttgaaca 120
aagccacatc atttaatttt gtatctaaaa tttatttggg gtcttatatg ttatttctca 180
tgtaaccctt attaggactc atttttagccc taaattacct gtggctggtt ctttttattt 240
ttttgactac ttttatatta taaatgtgtg ttactgtcct atgaattcat ggcaatatag 300
ttggatagcc tggatacttt gtttagatgag tatttagctg tgtctgcaaa tcttaaaagc 360
cattagcaaa gagtcgtgggt atttttttct ttattttt 398

<210> 218
<211> 487
<212> DNA
<213> Homo sapiens

<400> 218
ctgccgccgg tcaggctgggt taaagatcag gtcccccagg accttgcgat ttatgtcgcc 60
attctccagc aagacctcag tgcgaagac ctctacgat cgccggtggg cagggtatcc 120
tggtcgacg acgtgccggg ccatcacgtc caggtcaatc accgcacagc ccagtttcag 180
tgtttttaca cattatattg ttataatctc acaataacta taaattaggt agaacaggaa 240
atgaggtttg gagaagatac ttgacttate cgaccatctg tacttgtccc atagtaagga 300
gcctcaagca gagacaaagg aggaagttgc ctatgttgta tggtttacag gccataaatg 360
aatgtcatct ttttcctccc ctggggaaaa atgtctcaaa aatcccacca taggacatga 420
catctccaga acctctatta caaaatacac atttcctgta gaggggtaac aaatttgggt 480
taacctg 487

<210> 219
<211> 390
<212> DNA
<213> Homo sapiens

<400> 219
aaaaaataca ccacacgata caactcaata caggagtatt tcttctcaaa ttcttctagc 60
accatcaaca ttcttcaagt atctgaaata ctattaatta gcacctttgt attatgaaca 120
aaacaaaaca aggacctcag ttcattctctg tctaggtcag cacctaacaa tgtggatcac 180
actcatggga aagtgttttg aggtagttta aacctttgga agtttgggtt ttaaacttcc 240
ctctgtggaa gatattcaaa agccacaagt ggtgcaaagt tttatgggtt ttatttttca 300

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atTTTTatTTt tggTTTTctt acaaaggTtg acatTTTcca taacaggTgt aagagtgttg 360
aaaaaaaagt tcaaattttt gggggagcgg                                     390

```

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<210> 220
<211> 341
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 86, 87, 88, 188, 189, 190
<223> n = A,T,C or G

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<400> 220
aaaacaggca aagTTTTaca gagaggatac atttaataaa actgcgagga catcaaagtg 60
gtaaatactg tgaaatacct tttctnnnca aaaggcaaat attgaagttg tttatcaact 120
tcgctagaaa aaaaaaaaca cttggcatac aaaatatTTa agtgaaggag aagtctaacg 180
ctgaactnnn aatgaaggga aattgTTTat gtgttatgaa catccaagtc tttcttcttt 240
tttaagttgt caaagaagct tccacaaaat tagaaaggac aacagttctg agctgtaatt 300
tcgccttaaa ctctggacac tctatatgta gtgcattttt a                               341

```

```

<210> 221
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<400> 221
ccagggggaa ttgagggagg ctctaagcta ggggcactgc atggtgggac aggatggccc 60
cttgaggact gaaccttggg gagaagacaa acagtaataa taaaaacaaa taacaagtac 120
tttaagaatg gattgtatga cctatatgta cagatgacat cactaatact gaaagcttct 180
tatattaata attttggcaa aatgtcattt tgtaatatag tatatgcttt ccag          234

```

```

<210> 222
<211> 186
<212> DNA
<213> Homo sapiens

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```

<400> 222
aaatTTTcat tgagttgtcc atctccagca tatagggctt caggagcaga gcagaccttg 60
TTTTtagtgg ttccatggga taaaatggga ttggaggagc tagaagaatt cagggTcttg 120
tccaatctgc cagtcttctt gaaatatcga aaatacacca gggctgctat atcagagcca 180
ccctgg                                           186

```

```

<210> 223
<211> 486
<212> DNA
<213> Homo sapiens

```

```

<400> 223
ccataagcag ataagtagca gttcaactgg atgtctctct tctccaaatg ctacagtaca 60
aagccctaag catgagtggg aaatcgTTgc ttcagaaaag acttcaaata acacttactt 120
gtgcctggct gtgctggatg gtatatTTct tgTcattttt cttcatggga gaaacagccc 180
acagagctca ccaacaagta ctccaaaact aagtaagagt ttaagctTTg agatgcaaca 240
agatgagcta atcgaaaagc ccattgtctcc tatgcagtag gcacgatctg gtctgggaac 300

```



```

ctgctgcata gaaaatatgc taacatacaa cagtcaagtt taagcctgtg catagagaag 60
ataaagcact tatggtaact gcaaattgta acgagtcctt aagggtttgta caacctagta 120
tgggtccata aggaaaaact gtagtagaaa tggtaggac aaacaataaa gtagaaacag 180
gggggaaact tgagaagaga agaaagaagc aagaaaaaaa gactttcaat tgtataaaat 240
tcacaaacca gtaaagtata aagacaccat ggagaaatgg ttaactctgc cccaaacacc 300
caacagcaaa caaaaccaga atgaataagc ctttggcaga caattttaga aatttgaatg 360
ttacatttct caataattca caaacaatat attatatggt atatttatat taaatattgg 420
gaaaccaatg ttgtaaattt gatgcttata atgctttagc caatgagagc acaatgatat 480
caatcaagct aaatgaatgc tgggtgttgc acaacagtgc tcatttatga aacaa 535

```

<210> 228

<211> 301

<212> DNA

<213> Homo sapiens

<400> 228

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aaacaataaa caccatcaac cttattgact ttattgtccc ttaaattata ttgactggtg 60
tgattccatc aagtttgtac actcttttct ctccctgttt tgcagcaaca aattgcgaag 120
tgcttttggt tgtttgtttt cgtttggtta aagcttattg ccatgctggt gcggctatgg 180
agactgtctg gaaggcttgg aatggtttat tgcttatggt aaaatttgcc tgatttctta 240
caggcagcgt ttggaaacct tttattatat agttgtttac atacttataa gtctatcatt 300
t 301

```

<210> 229

<211> 420

<212> DNA

<213> Homo sapiens

<400> 229

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aaagtgtgctt tgctggaagt ttttataagg aatctcagat taaaccttta gaagtttaat 60
tgacactagg aagccaaacc aaggctgact tcagactttg tttgtagtac ctgtgggttt 120
attacctatg ggtttatatc ctcaaatacg acattctagt caaagtcttg gtaatatatac 180
caatgttttc aaatgtattc tgtcatacaa agagcagatt tttattgaac ttgtgcaata 240
actatattac catacaatat aaatattcat gaatagtctt ccaagtctgg agcgaccaca 300
tagggagaaa atgcaaatgt ctcaattttt gttcacaaaa gtatatttta tcaaattgct 360
gtaagctgtg gatagcttaa aagaaaaaaa gtttcctgaa atctgggaaa caagacattt 420

```

<210> 230

<211> 419

<212> DNA

<213> Homo sapiens

<400> 230

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gtgaagtccct aaagcttgca ttccaccagc ttctacaata gccggcttat tactagagca 60
gacagatagc accttcagca ctctgcttgt ggtccacagt agtttttctg aagtataggt 120
cctcattata tttactaaag cttgggggtcc accactagcc agtatgatga gcttgctttc 180
ttggttgccca taagctaaaaa tttgaaggca gtctgtcgta atagccaaga atttaacatt 240
tgttttgttg agcaaggcaa ccattttctg cagcccacca gctaaacgca ctgccatttt 300
agctccttct tgatgtaata aaaggttgtg gagagtgtga atggcataaa acaacacaga 360
atccactggg gaaccaagca ttttcaccag ggcaggaatg cctccagact taaagatgg 419

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<210> 231

<211> 389

<212> DNA
<213> Homo sapiens

<400> 231
 ttgttcagag ccoctgggtgga tcttgcaatc cagtgcacct caaaggctag aacactacag 60
 gggatgaatt cttcaaatag gagccgatgg atctgtggct ctttgggact catcaaagcc 120
 ttggttttagc attttgtcag ttttatcttc agaaattctc tgcgattaag aagataattt 180
 attaaagggtg gtccttcccta cctctgtggg gtgtgtcgcg cacacagctt agaagtgtta 240
 taaaaaagga aagagctcca aattgaatca cttttataat ttacccattt ctatacaaca 300
 ggcagtggaa gcagtttcag agaacttttt gcattgcttat ggttgatcag ttaaaaaaga 360
 atgttacagt aacaaataaa gtgcagttt 389

<210> 232
 <211> 397
 <212> DNA
 <213> Homo sapiens

<400> 232
 ccaggataat atacacaggt ttgcagctaa aactgtgcac agtgggtcat tgatgctagt 60
 cacagtggaa ctgaaggaag gctctacagc ccagcttatt ataaacactg agaaaactgt 120
 gattggctct gttctgtctg gggaaactgaa gcctgtcctg tctcaggggt aacctgctta 180
 catctggact ttagaatctg gcacacaaca aaagtgcctg gcattccacta ctgctgcctt 240
 tcattttataa taatagccct tccatctggc agtgggggaa gaatacactc ttgacattct 300
 tgtctcctgc tttagaatgc tagtgtgtat ctatcatgta tgcaataactt tccccctttt 360
 tgctttgcta accaaagagc atatatttta ctgtcag 397

<210> 233
 <211> 508
 <212> DNA
 <213> Homo sapiens

<400> 233
 cgaggagtgc ctttaagtgcg aggacctcaa agtgggacaa tataatttgta aagatccaaa 60
 aataaatgac gctacgcaag aaccagttaa ctgtacaaac tacacagctc atgtttcctg 120
 ttttccagca cccaacataa cttgtaagga ttccagtggc aatgaaacac attttactgg 180
 gaacgaagtt ggttttttca agcccatatc ttgccgaaat gtaaatggct attcctacaa 240
 agtggcagtc gcattgtctc tttttcttgg atggttggga gcagatcgat tttaccttgg 300
 ataccctgct ttgggtttgt taaagttttg cactgtaggg ttttgtggaa ttgggagcct 360
 aattgatttc attcttattt caatgcagat tgttggacct tcagatggaa gtagttacat 420
 tatagattac tatggaacca gacttacaag actgagtatt actaatgaaa cathtagaaa 480
 aacgcaatta tatccataaa tattttttt 508

<210> 234
 <211> 358
 <212> DNA
 <213> Homo sapiens

<400> 234
 aaatgttggg attcaaaaacc aaagatatataa ccgaaaggaa aaacagatga gacataaaat 60
 gatttgcaag atgggaaata tagtagttta tgaatgtaaa ttaaaattcca gttataatag 120
 tggctacaca ctctcactac acacacagac cccacagtcc tatatgccac aaacacattt 180
 ccataacttg aaaatgagta ttttgcatac ctgagttcag gatattgttt ttacaagtta 240
 atoctaaagt cataaagcaa gaagctattc atagtacaag attttatttg ctaagcttta 300
 caaattaaac tctaaaaaat tattacaatg atactgaaag atattttatt ggcctttt 358

<210> 235
 <211> 482
 <212> DNA
 <213> Homo sapiens

<400> 235
 gaagaaagtt agatttacgc cgatgaatat gatagtgaat tggatttttg cgtagggttg 60
 gtctagggtg tagcctgaga ataggggaaa tcagtgaatg aagcctccta tgatggcaaa 120
 tacagctcct attgatagga catagtggaa gtgagctaca acgtagtacg tgcgtgtag 180
 tacgatgtct agtgatgagt ttgctaatac aatgccagtc aggccaccta cggtgaaaag 240
 aaagatgaat cctagggctc agagcactgc agcagatcat ttcattattgc ttccgtggag 300
 tgtggcgagt cagctaaata ctttgacgcc ggtggggata gcgatgatta tggtagcgga 360
 ggtgaaatat gtcgtgtgt ctacgtctat tcctactgta aatatatggg gtgctcacac 420
 gataaacct aggaagccaa ttgatatcat agctcagacc atacctatgt atccaaatgg 480
 tt 482

<210> 236
 <211> 149
 <212> DNA
 <213> Homo sapiens

<400> 236
 cctcttcatt gttcacatgt cacaggagga ggctctgagc aaaggccact ggcaagttag 60
 ggcaacacca agaaggtct gggagagac tcctgtggg ttggggcctg gcaggaacgg 120
 tgctgtgga ctgtttatgg tctgtccag 149

<210> 237
 <211> 391
 <212> DNA
 <213> Homo sapiens

<400> 237
 gaagctaaat ccaaagaaat atgaagggtg ccgtgaatta agtgatttta ttagctatct 60
 acaaagagaa gctacaaacc cccctgtaat tcaagaagaa aaaccaaga agaagaagaa 120
 ggacacaggag gatctctaaa gcagtagcca aacaccactt tgtaaaagga ctcttccatc 180
 agagatggga aaaccattgg ggaggactag gacccatag ggaattatta cctctcaggg 240
 ccgagaggac agaattgata taatctgaat cctgtttaa tttctctaaa ctgtttctta 300
 gctgcactgt ttatggaaat accaggacca gtttatgtt gtggttttg gaaaaattat 360
 ttgtgttggg ggaaatgtt tgggggtgg g 391

<210> 238
 <211> 374
 <212> DNA
 <213> Homo sapiens

<400> 238
 aaaaaacaaa acaatgtaag taaaggatat ttctgaatct taaaattcat cccatgtgtg 60
 atcataaact cataaaaaata attttaagat gccggaaaag gatactttga ttaaataaaa 120
 aactcatgg atatgtaaaa actgtcaaga ttaaaattta atagtttcat ttatttgta 180
 ttttatgtt aagaaatagt gatgaacaaa gatcctttt catactgata cctggttgta 240
 tattatttga tgcaacagtt ttctgaaatg atatttcaa ttgcatcaag aaattaaaat 300
 catctatctg agtagtcaaa atacaagtaa aggagagcaa ataaacaaca tttggaaaaa 360
 aaaaaaaaaa aaaa 374

<210> 239
 <211> 200
 <212> DNA
 <213> Homo sapiens

<400> 239
 aaagatgtct ttgaccgcat atgtactgga aatttcaaac gtggatcttc ccaggttgta 60
 gtcttttgtgt tatgatcaat gaagaagggc cggccgtttg gcgctatcct catttcccag 120
 ccgggtggca agaagctctg tgtgactttg tgtgtgggtt tgggggagtt gtaaggtgat 180
 ggctgtgggg actgtggggt 200

<210> 240
 <211> 314
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 67, 71, 76, 99, 224
 <223> n = A,T,C or G

<400> 240
 ctggtaaact gtccaaaaca aggttccaaa taacacctct tactgattta ccctacccat 60
 acatatnoca natagntttt gatcaaaaac atgaaatana tccacctgct tattttaagc 120
 atattaaaaa ggaaactaat tggaccattt tctatttgtc tattttatac aaaaaggcta 180
 cacaattgat acaactctatt cagataacaa tcaattagag tgantatgaa ttactggcga 240
 caccatcact caattcttaa aaattagaaa ttgctgtagc agtattcact ataacttaac 300
 actaccgaga gact 314

<210> 241
 <211> 375
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 302, 316, 328, 329, 333, 340, 343, 354, 355, 362
 <223> n = A,T,C or G

<400> 241
 ccaagtcctt ggagttatag gatattcatt acttcctctc attgtaatag cccctgtact 60
 tttgggtggtt ggatcatttg aagtgggtgc tacacttata aaactgtttg gtgtgttttg 120
 ggctgcctac agtgcctgctt cattgttagt ggggtgaagaa ttcaagacca aaaagcctct 180
 tctgatttat ccaatctttt tattatacat ttatcttttg tcgttatata ctggtgtgtg 240
 atccaagtta tacatgaata gaaaaagatg gtgttaaatt tgtgtgtagg ctgggaattc 300
 tngctaaggg aatggnaaaa aacctgtntt tgnaaaattn acntgtccca aagnnaagga 360
 anctaaacgc ttttt 375

<210> 242
 <211> 387
 <212> DNA
 <213> Homo sapiens

<400> 242
aaaggcattc tctgatttac atgagaattg agaaactgag atgtatgatt tgtctgttag 60
tcaatttcac accctttcat tctcataagc cccaaatttt gctcagttaa ggagcttgct 120
ttaggcccac ctatgtaagt ctgttatact agctaattgtg cccatttgaa tagttcaagg 180
gtcagctaatt gctctgagct tcatggctcc agtataaaga acaaatttaa caaaattaag 240
ctgttactgt agccgagtta cccttctgct ccacacatat gtagtgggat cttgcaggat 300
ttccatagtg ccaattatca aaggccttga ctacttagca ttgctgtatt acagatgtgc 360
aaactgaggc actgaaaagt caaattt 387

<210> 243
<211> 536
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 30, 344, 510
<223> n = A,T,C or G

<400> 243
aaaccaaag gacgaagaaa aaacactttn aaaaaaaaaa aaaaaaaga aaaaccaaac 60
catattttgc cacatgtgag agtacgggtca agcagtattt acaaaaagggt taacggaaca 120
acactctgac acatgctctg agaatactgg gactgctgtt tcaaaaaaaa aggttcaaac 180
ttattgtcac agcatcatca caaaatagag gatcaccatt ggtttgcttg gcttttcttt 240
ttttttttcc cccaagtgag gacctaactc caaataatac aatagaatat gcaaattatc 300
ttcacatcaa gagtacccca agaaaaacga aatccatggc acanacactg tacaaggggtg 360
cagggcaggg ctctgagggg cccaaacccc attttgccaa ctcgattttc tagcattgaa 420
gggagcaagg ggtcagggcat atgatggaga tgatactgaa atgattttatc caaaatccat 480
gcaaatacaag ttctttggat agaggtgaan aacttggaca tggctgtttc aggcag 536

<210> 244
<211> 397
<212> DNA
<213> Homo sapiens

<400> 244
ccaggataat atacacaggt ttgcagctaa aactgtgcac agtgggtcat tgatgctagt 60
cacagtggaa ctgaaggaag gctctacagc ccagcttatc ataaacactg agaaaactgt 120
gattggctct gttctgctgc gggaaactgaa gcctgtcctg tctcaggggt aacctgctta 180
catctggact ttagaatctg gcacacaaca aaagtgcctg gcatccacta ctgctgcctt 240
tcatttataa taatagccct tccatctggc agtgggggaa gaatacactc ttgacattct 300
tgtctcctgc tttagaatgc tagtgtgtat ctatcatgta tgcaatactt tccccctttt 360
tgctttgcta accaaagagc atatatttta ctgtcag 397

<210> 245
<211> 508
<212> DNA
<213> Homo sapiens

<400> 245
cgaggagtgc cttaagtgcg aggacctcaa agtgggacaa tatatttgta aagatccaaa 60
aataaatgac gctacgcaag aaccagttaa ctgtacaaac tacacagctc atgtttcctg 120
ttttccagca cccaacataa cttgtaagga ttccagtggc aatgaaacac attttactgg 180
gaacgaagtt ggttttttca agcccatatc ttgccgaaat gtaaatggct attoctacaa 240

```

agtggcagtc gcattgtctc tttttcttgg atggttggga gcagatcgat tttaccttgg 300
ataccctgct ttgggtttgt taaagttttg cactgtaggg ttttgtggaa ttgggagcct 360
aattgatttc attcttattt caatgcagat tgttggacct tcagatggaa gtagttacat 420
tatagattac tatggaacca gacttacaag actgagtatt actaatgaaa catttagaaa 480
aacgcaatta tatccataaa tttttttt 508

```

```

<210> 246
<211> 358
<212> DNA
<213> Homo sapiens

```

```

<400> 246
aaatgttggg attcaaaacc aaagatataa ccgaaaggaa aaacagatga gacataaaat 60
gatttgcagg atgggaaata tagtagttta tgaatgtaaa ttaaaattcca gttataatag 120
tggtacaca ctctcactac acacacagac cccacagtcc tatatgccac aaacacattt 180
ccataacttg aaaatgagta ttttgcatat ctgagttcag gatatgtttt ttacaagtta 240
atcctaaagt cataaagcaa gaagctattc atagtacaag attttatttg ctaagcttta 300
caaattaaac tctaaaaaat tattacaatg atactgaaag atattttatt ggccctttt 358

```

```

<210> 247
<211> 673
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 605, 618, 635, 644, 651, 660, 668
<223> n = A,T,C or G

```

```

<400> 247
gaagaaagtt agatttacgc cgatgaatat gatagtgaag tggatttttg cgtaggtttg 60
gtctagggtg tagcctgaga ataggggaaa tcagtgaatg aagcctccta tgatggcaaa 120
tacagctcct attgatagga catagtggaa gtgagctaca acgtagtacg tgtcgtgtag 180
tacgatgtct agtgatgagt ttgctaatac aatgccagtc aggccaccta cggtgaaaag 240
aaagatgaat cctagggctc agagcactgc agcagatcat ttcattattgc ttccgtggag 300
tgtggcgagt cagctaaata ctttgacgcc ggtggggata gcgatgatta tggtagcgga 360
ggtgaaatat gctcgtgtgt ctacgtctat tcctactgta aatatatggt gtgctcacac 420
gataaacctt aggaagccaa ttgatatcat agctcagacc atacctatgt atccaaatgg 480
ttcttttttt ccggagtagt aagttacaat atgggagatt attccgaagc ctggtaggat 540
aagaatataa acttcagggt gaccgaaaaa tcagaatagg tgttggata gaatgggggc 600
tcctnctccg cggggtcnaa gaagggtgtg ttgangttgc cggnctgtta ntagtatagn 660
gatgccanca gct 673

```

```

<210> 248
<211> 149
<212> DNA
<213> Homo sapiens

```

```

<400> 248
cctcttcatt gttcacatgt cacaggagga ggctctgagc aaaggccact ggcaagttag 60
ggcaacacca agaaggctct gcggagagac tcctgtggg ttggggcctg gcaggaaacg 120
tgctgtgga ctgtttatgg tctgtccag 149

```

```

<210> 249

```



```

ctgccataat ctgtggcttc actggtgaga aacaagtccg ggttttccag aatctcttct 540
tcagagagct ttttgtcacc attcaaatcc atttcatcaa ttagatgaag cgcctcctct 600
tgtgcaatgc cctgattatt aggtctaccc aaggtaacag ctcttgggga tcaagcctgc 660
catcgttatc tttgtcataa tcattcaccg aatctgtctt tctcacaagt atcccattct 720
ggatcttcac ttgcag 736

```

```

<210> 259
<211> 437
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 32
<223> n = A,T,C or G

```

```

<400> 259
aaaaccatac tgaaatcatt taccaaataa cnaagatctt aatctaaaag atagtgaata 60
catcatcatc atgaaatctg gttttatgtg ctctatgaag tacttggaga attgcttttt 120
tatttttctt ttgctttatt aggtcacaca aaacagaatg aattagcaga aaaatgtatg 180
ttataaaaca gcatttacta cttcaattta atttttttta ctaacaattg tggacctttt 240
tgatgacact tatgtatgtt ttttaataat tatgtactta ttagtactta atgagccctt 300
cctgcctcaa tataaaatta ctaaacttgg agaattacag attttattgt aggccctgat 360
gttagtcaact ttggagaagc taaaaatttg gaaatgatgt aattcccact gtaatagcat 420
agggattttg gaagcag 437

```

```

<210> 260
<211> 592
<212> DNA
<213> Homo sapiens

```

```

<400> 260
tttttttttt gaaaaatata aaattttaat aaaggctaca tctcttaatt acaataatta 60
ttgtaccaag taattttcct taaatgaact ctttataatg cataatttac agtataagta 120
gaacaaaatg tcatgacaaa agtcattgag tacaagactt gtaataaaaaa ggcataaaat 180
atattttatac ataaacccct ttcaaaaaac aagggaagc ttgagccctc aatatagggc 240
gacacacgga gcgggtgacc gtgcaggtac aggtactgta ctgattttaa gtcaagcact 300
agagatagtg gattaatact cttttgccgt acactatata cagatgtata gtacaagtaa 360
caatggcaaa cagaatgtac agattaactt aacacaaaaa cccgaacatc aaaatgaagg 420
tgtgtggagg aaaggtgctg ctgggtctcc ctacaactgt tcatttcttt gtggggcagg 480
gggtagttcc tgaatggctg tgggtccaat actaatgtaa aacaaaaaca gaaacaaaaa 540
aaacaaggaa ctgtcatttc cacgaaagca cagcggcagt gattctagca gg 592

```

```

<210> 261
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<400> 261
gtggcagggc ccagccccga accagacaag ggaccctca aggagcttca ttctagcatg 60
agaaaaattga gaagtaaacc agaaagttac agaatgtctg aaggggacag tgtgggagaa 120
tccgtccatg ggaaaccttc ggtggtgtac agatttttca caagacttgg acagatttat 180
cagtcctggc tagacaagtc cacaccctac acggctgtgc gatgggtcgt gacactgggc 240
ctgagctttg tctacatgat tcgagtttac ctgctgcagg gttggtacat tgtgacctat 300

```

```
gccttgggga tctaccatct aaatcttttc atagcttttc tttctcccaa agtggatcct 360
tccttaatgg aagactcaga tgacggtcct tcgctaccca ccaaacagaa cgaggaattc 420
cgcccccttca ttcgaaggct cccagagttt 450
```

```
<210> 262
<211> 239
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 32
<223> n = A,T,C or G
```

```
<400> 262
taactttgat gacaaaaatct aaaattaaag anttagtctt aaaagcctat agtgacttgt 60
ttacttgcac aaataatatt ttcacttagt acaggctatt aatataagta atgagaattt 120
aagtattaac tcaaaaaaag atagaggctc caaacttttc taagaaatta atgcattttc 180
aaagtaataa tataatcaat ctgtaagtca aaagtaattt catattcatt gccaaattt 239
```

```
<210> 263
<211> 376
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 27, 32, 65, 362
<223> n = A,T,C or G
```

```
<400> 263
aaaaaaaaaa aaaaaaaatt ccttgtngtt tnttagagga aaaaaagaaa aaccccaact 60
tttancactg atactacata ttgctctgtt aaagaatttt ctctgccaaa aaaaagaaaa 120
aacaaaaaaa cgcttaaagc tggagtttga cattctgctt tcagatgctg tctttttatt 180
agtgagtgat gatggtttgc taataatcaa taggtaataa ttttttgtaa tcccatcaag 240
tggtccata tgtttctgct ctctcgtgac tgtgttaatg tttaactgtt gtaccttaaa 300
gccgaaatca gtaactatgc atactgtaac caaggtattg ggcttacaga gttgtttgtt 360
gnataaagaa aatttt 376
```

```
<210> 264
<211> 207
<212> DNA
<213> Homo sapiens
```

```
<400> 264
aaattagcat tccacaaata tacaggtaat ttaataatta ttgtgcatga atacatacac 60
aatgcttata tatacaaatt ccagttttgtt ttcattgtgt ggcaagggat ttgtatacaa 120
tcataagctg tgttcatatt ggtcccattg aatattcaca atacaaaagc acaaaaagaac 180
cattgattta caaaaggaaa tctattt 207
```

```
<210> 265
<211> 388
<212> DNA
<213> Homo sapiens
```


<220>
 <221> misc_feature
 <222> 1, 31, 65, 68
 <223> n = A,T,C or G

<400> 265
 naactgcact ttatttggtta ctgtaacatt nttttttaac tgatcaacca taagcatgca 60
 aaagnccnct gaaactgctt ccactgcctg ttgtatagaa atgggtaaat tataaagggtg 120
 attcaatttg gagtccttc cttttttata gcacttctaa gctgtgtgcg cgacacacac 180
 cacagaggta ggaaggacca cctttaataa attatcttct taatcgcaga gaatttctga 240
 agataaaact gacaaaatgc taaaccaagg ctttgatgag tcccaaagga ccacagatcc 300
 atcggctcct atttgaagaa ttcacccct gtagtgttct agcctttgta gggcactgga 360
 ttacaagatc caccagggt ctgaacaa 388

<210> 266
 <211> 616
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 32
 <223> n = A,T,C or G

<400> 266
 aaatacagag tcaaaagatg atttataaaa tntaaaacat tttctgcttg gccgtatttg 60
 aagacaagct gaatacatat ctatgttctg aataagtcca ctatggatat atataggaag 120
 agatatacat atatccatcc acagatacac acacacatat atatttctgc atgtatatat 180
 acataattct ttctatagtt acaggaaata cttcttctat aattctgatt ttgactocca 240
 toctccacca tttactcatc cactcattac ctaaactctg gctttctttc ctatattgta 300
 aataatccat coaaacttct agccagtact gtcaggaggg ttcttgctcg agtgagctgt 360
 taatactatt ttccactgac aacttctgca catcgaggac acagtgtatc tgaagactcc 420
 gctgtatact tccaacaacg ggggcatttt tctttcgtag tcggcatgac aattacttta 480
 taggaagact cttcacgaat atcaccacct tctaagttga tgaggaattt ccctttaagc 540
 tcgattacat ctgcagtcac ctctcgtggg tcttgaccag taaagttgac tcagaagcca 600
 tcattaattc attcaa 616

<210> 267
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 267
 ccattatgta tgtattttct tgaaaaatac ttatttcagc tacttatttt taatagttac 60
 ttattcttgt tgtattgtca tttaggtttt gtatatattt ttgatattaa ccccttgtca 120
 catgtataat ttgcaaatat tttctccctt tttttagttg tcacattctg ttcatgtgat 180
 cagattctgt gcagcagctt ttttaattga agtgatctga ctgacttggt cttccttttg 240
 tgtcctggga tatttaggtt aaatcaaaaa acttgctgcc cagaccaatg ttatggggct 300
 ttcactctat tttttggtag tagtagttta agagttttag g 341

<210> 268
 <211> 367
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 31, 66

<223> n = A,T,C or G

<400> 268

```

ttgtagattg gaatagcaaa agtgaatgct ntgacaaaaa tttttgccct cctaaataaa 60
gacgtntcct tctagagagc aaatctatca taaaatgtca aaactagaag agaataaaat 120
gaaaggaaaa aacctagaaa aatatacctaa aatatcaaat gcagtcattt ctaaataataa 180
gccataatta tagcttttacc tattgtttctt attgttccta tgctgcttct acaatgtttac 240
atcaactata cttagcttta ctctcccaaa atcttgggtga tgaagccttc tgagtgtgct 300
ttccaatgtg ccagaaccag aagggcattc caaggcttcc ccacatttcc tccattttacg 360
gagacag                                     367

```

<210> 269

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 29, 33, 62, 65, 68, 70, 264

<223> n = A,T,C or G

<400> 269

```

caaattctct cctcactaga cgtaagccnt ttntcactc tctcaatctt atgcatcata 60
gnaangcngn tgaggtggat taaaccaaac ccagctacgc aaaatcttag catactcctc 120
aattaccacc ataggatgaa taatagcagt tctaccgtac aaccctaaca taaccattct 180
taattttaact atttatatta tcctaactac taccgcatcc ctactactca acttaaactc 240
cagcaccacg accctactac tatntcgcac                                     270

```

<210> 270

<211> 368

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 32

<223> n = A,T,C or G

<400> 270

```

ctgaatcatg aataacacta tataatagag tntaaggaac acaagcatta gatgtgatcc 60
ttgccccata cccttagatt atgtcagact aaagctgaca attctgccag gctctgaacc 120
cctagtgcc ccaacccaaa tcttggaagc aaagaatatg ccctgtcata caactttgta 180
caagttgtag taaaacaaag cttaagtttt ctcatctttc tacagcaaatt ggtcagttat 240
ttaataaaca ctaaaatgct cctaagaatc catttttgagt ttgtttacca aacacattgt 300
gcaagaactg actacacaaa aagtttcctt gaaatttggt ccacaaattc acttaagggt 360
ggaaattt                                     368

```

<210> 271

<211> 313

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 67, 68
<223> n = A,T,C or G

<400> 271
aaatttatat aaaactctgt acatgttcac tttattattg cataaacagc ataattctca 60
agacaanngt ttgcaaacac atgtccaatt caggaaaaaa aatttcacgt ttctcgtctg 120
gcttttttct tcttttttat ttgtttggga gattcccagc tagtttcaga cttgggtctgt 180
gaaggaggca cactattttg cttgggtatt gacttggatt tatctgtctc ttgtagtatt 240
ggcggcactt gggaagagct cttgtcagaa tcactttttg ataagattac agatggctcg 300
gtagaagtag cag 313

<210> 272
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 31
<223> n = A,T,C or G

<400> 272
aaaaaacatt tattttaata agactattgc naacacatta aaaaaactaa atagtaatat 60
tacaaaatct atatacttgc acatttagta tttgtcaatg tgccagaggt tttcttcatg 120
aaatttgact tctttgaagt gaaggctttt ttctatcatc tcttatagct ctgactgaat 180
aagtcttaat gctttcttca tgttttctat caataggggg aaatcccgag gctcatatgt 240
gtacaatctg ttagagtatc ttccagctat gtcagctcta actgttaaag aagggtctac 300
aaacatgatt ctaggcacat attgcccatc aggtgataaa ttcttatcag tggtttcatg 360
cataaggttt agcatgatga acttattctg agccatttct tgtatttctt cattttgggc 420
aaatactttc tttagtgtct gagagtattg acaatcctcc ag 462

<210> 273
<211> 282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 30, 66, 67
<223> n = A,T,C or G

<400> 273
ctgatcaaag catgggatat tttaatagtn ttatacataa tattttttaca tagaaaactt 60
tacatnncat ttcatattat ataattctgc ttattctttc aaaaatttat acatccattg 120
ggcaaggaat ggttttcatt aaattaccaa tattaatgc acttaatcat tgtgtatagg 180
ttaaaccaaa gtaactatta actaactttt aggcatttta aggaggtaaa acatacattt 240
tacacataag tatttgatgc aaatatgcag ataaaatttt tt 282

<210> 274

<211> 125
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 30, 33, 63, 68
 <223> n = A,T,C or G

<400> 274
 cagccctaga cctcaactac ctaaccaacn ttnccttaaaa taaaatcccc actatgcaca 60
 ttnaatcnct ccaacatact cggattctac cctagcatca cacaccgcac aatccccctat 120
 ctagg 125

<210> 275
 <211> 528
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 33, 68, 470
 <223> n = A,T,C or G

<400> 275
 aaagctgtgg aaaagcttta ttatagattt ttntacagaa ttaaaaaagt tcaaacaata 60
 ataagccngg aaccacaaat aattaaaagg aaacacagca atcccataaa caagcattct 120
 ggcatctgtt agaaattttc cctcaaatta tgaaatgtag ctctccatgc tttccaatga 180
 ttgttataat acccacaat atctgtgatt tcagtggaa actttaacaa aagttttctt 240
 ttttaaggcat gatcctgatt cattttttct tcaatatctc agtcatttca ggaactacct 300
 taaataaatc tgcaactatt ccataatctg ccacttgaa aattggagct tctgggtctt 360
 tattaattgc cacaattgtc ttgctgtctt tcatcccagc taaatgttgg atggctccag 420
 atattccaac agcaatataa agttctggtg ctactatttt tccgctctgn ccaacttgca 480
 tgtcattggg aacaaagcca gcatcaacag cagcacggga agcaccaa 528

<210> 276
 <211> 420
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 30
 <223> n = A,T,C or G

<400> 276
 aaatgtcttg tttcccagat ttcaggaaan tttttttctt ttaagctatc cacagcttac 60
 agaaaacctga taaaatatac ttttgtgaac aaaaattgag acattttacat tttctcccta 120
 tgtggctgct ccagacttgg gaaactattc atgaatatat atattgtatg gtaatatagt 180
 tattgcacaa gttcaataaa aatctgctct ttgtatgaca gaatacattt gaaaacattg 240
 gttatattac caagactttg actagaatgt cgtattttgag gatataaacc cataggtaat 300
 aaaccacag gtactacaaa caaagtctga agtcagcctt ggtttggtt cctagtgtca 360
 attaaacttc taaaagttaa atctgagatt ccttataaaa acttccagca aagcaacttt 420

<210> 277
 <211> 668
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 31, 63, 566
 <223> n = A,T,C or G

<400> 277
 ccagggtggc tctgatatag cagccctggg ntattttcga tatttcagga agactggcag 60
 atngcaccag accctgaatt cttctagctc ctccaatccc attttatccc atggaaccac 120
 taaaaacaag gtctgctctg ctccctgaagc cctatatgct ggagatggac aactcaatga 180
 aaattttaag ggaaaaccct caggcctgag gtgtgtgcca ctcagagact tcacctaaact 240
 agagacaggc aaactgcaaa ccatgggtgag aaattgacga cttcacacta tggacagctt 300
 ttcccaagat gtcaaaaaca gactcctcat catgataagg ctcttaccac cttttaattt 360
 gtcccttgct atgcctgcct ctttcgcttg gcaggatgat gctgtcatta gtatttcaca 420
 agaagtagct tcagagggta acttaacaga gtatcagatc tatcttgtca atcccaacgt 480
 ttacataaaa ataagagatc ctttagtgca ccagtgact gacattagca gcattcttaa 540
 cacagccgtg tgttcaaagt tacagnggtc cttttcagag ttggacttct agactcacct 600
 gttctcactc cctgttttaa ttcaaccag ccatgcaatg ccaaataata gaaattgctc 660
 cctaccag 668

<210> 278
 <211> 202
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 30, 32, 63, 66
 <223> n = A,T,C or G

<400> 278
 aaattggtat cgacggcaac caggggaagn tnctaaactc ctaatctatt ctggatccaa 60
 ttngcnaagt ggggtcccat caaggttcag tggcagtgga tctgggacag atttcaactc 120
 cacgatcagc agtctgcaac ccgaagattt tgcaacttac tactgtcaac agagttacat 180
 gtccccgtac acttttggac cc 202

<210> 279
 <211> 694
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 63, 526, 577, 580, 586, 599, 608, 620, 624, 642, 643, 651,
 660, 668, 681, 687, 692, 693
 <223> n = A,T,C or G

<400> 279
 ctgtacttgg acaaaataag ttaattctat ttggttgtcc attaaagttt tatgtggcta 60


```
tggatcttat agaccgttca tacaatgggt ttagcaagtt catagtaaga caaacaagtc 180
ctatcttttt ttttggctgg ggtgggggcg cccaggccga ggctgg 226
```

```
<210> 283
<211> 358
<212> DNA
<213> Homo sapiens
```

```
<400> 283
aaacaaaaat actcaagatc atttatatatt ttttggagag aaaactgtcc taatttagaa 60
tttccctcaa atctgaggga cttttaagaa atgctaacag atttttctgg aggaaattta 120
gacaaaacaa tgtcatttag tagaatatatt cagtatttaa gtggaatttc agtatactgt 180
actatccttt ataagtcatt aaaataatgt ttcatcaaat ggtaaattgg accactgggt 240
tcttagagaa atgttttttag gcttaattca ttcaattgtc aagtacactt agtcttaata 300
cactcagggt tgaacagatt attctgaata ttaaaattta atccattctt aatatttt 358
```

```
<210> 284
<211> 288
<212> DNA
<213> Homo sapiens
```

```
<400> 284
aaaacttttg ttaagaaaaa ctgccagttt gtgcttttga aatgtctgtt ttgacatcat 60
agtctagtaa aatttttgaca gtgcatatgt actgttacta aaagctttat atgaaattat 120
taatgtgaag tttttcattt ataattcaag gaaggatttc ctgaaaacat ttcaagggat 180
ttatgtctac atatttgtgt gtgtgtgtgt gtatatatat gtaatatgca tacacagatg 240
catatgtgta tatataatga aatttatgtt gctgggtatt tgcatttt 288
```

```
<210> 285
<211> 629
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 31, 34, 35, 115, 435, 526, 585
<223> n = A,T,C or G
```

```
<400> 285
cctaaaagca gccaccaatt aacaaagcgt ncanntctcaa caccactac ctaaaaaatc 60
ccaaacatat aactgaactc ctacacacca attggaccaa tctatcacc tatanaagaa 120
ctaagttag tataagtaac atgaaaacat tctcctctgc ataagcctgc gtcagattaa 180
aacactgaac tgacaattaa cagcccaata tctacaatca accaacaagt cattattacc 240
ctcactgtca acccaacaca ggcattgtca taaggaaagg ttaaaaaaag taaaagggaac 300
togggcaaatc ttaccccgcc tgtttaccac aaacatcacc tctagcatca ccagtattag 360
aggcacccgc tgcccagtga cacatgttta acggccgcgg taccctaacc gtgcaaagggt 420
agcataatca cttgntcctt aattagggac ctgtatgaat ggcttcacga gggttcagct 480
gtctcttact tttaaccagt gaaattgacc tgcccgtgaa gaggcnggca tgacacagca 540
agaocgagaag accctatgga gctttaattt attaatgcaa acagnaccta acaaacccca 600
caggtcctaa acttaccaca accctggca 629
```

```
<210> 286
<211> 485
<212> DNA
```

<213> Homo sapiens

<400> 286

```

aaatgtactt gctcagctca actgcatttc agttgtatta tagtccagtt cttatcaaca 60
ttaaacccta tagcaatcat ttcaaatcta ttctgcaaat tgtataagaa taaagttaga 120
attaacaatt ttatttttgta caacagtgga attttctgtc atggataatg tgcttgagtc 180
cctataatct atagacatgt gatagcaaaa gaaacaaaca aaagccagga aaacactcat 240
tttcgccttg aatatgtaaa tgggattaat ttgttctgt gccttatgtg gaaaggaact 300
tctttggttt tccttttttg ttctgggtgga agcatgtgca ggagacatat catccaaaca 360
taaaccatta aaatgtttgt ggtttgcttg gctgtaattt tcaaagtagt taattgagga 420
caaagggtaa tgcagaagtg atagctttgg ttgctgaggt cttgttttaa gtggccttga 480
tattt                                         485

```

<210> 287

<211> 340

<212> DNA

<213> Homo sapiens

<400> 287

```

cctggagtc aataaccacc cctcatacc acaccctgtg catacaccag ccaagccttt 60
cctggctctg gaagggaaga gaaaaaagac gcaggccacc tgggggttct gcagtctttg 120
gtcagtcacag ccttctatct tagctgcctt tggcttccgc agtgtaaacc ttgcctgccc 180
ggaggcagga ggcccagctg gacctccgag ggccatgagc aggcagcagc catcttggcc 240
tcaagcttgc ctttcccttg agtccctctc tcccctcggc tctagccaga ggtgtagcct 300
gcagatctag gaagagaaga gctggggagg aggatgaagg                    340

```

<210> 288

<211> 290

<212> DNA

<213> Homo sapiens

<400> 288

```

aaacagtctc tcctoggtgt tctccttgtc aaactgttca tcccagtttc ctctgaaata 60
gacagcattc accagaacca gccttggtcaa tggatccact gagcccggag agagcaactc 120
cgcaatttta ccttctgtct tticagctac ccagggtgtt atgtgttttc tggacttctc 180
tacggcgctg ataaagtcaa gctcctccat ctctgcttgg tagaattttt ggcaggaatc 240
tctaaaagat gagaggaaat cacaagactt ttccccaag agcctgttgg                    290

```

<210> 289

<211> 404

<212> DNA

<213> Homo sapiens

<400> 289

```

ccacccacgc ttaggttccc atcacactga tgactccggg tttggcgagc acaggagcgc 60
aaaccttttc acattctttc tgtgatccaa atttgttttc gtttccacca caacctccat 120
accagaatct tgcacagctt ttggtgtttg gatcatagta ccattttaat atgaaatccc 180
tgcaagtacc ttogtctttc ggcaacttgc atatatctgt ttcagtgaga gccaatgggt 240
ctgtgctcac cattagattg atggttgaac tagaagctga ccttgcctggc tgtggagggt 300
ggggctgaga tttctttgta ctgaaacttc cgtggttagt ggctctgacc tgagacctca 360
ggtagcagac cacagccaca tggatatgtc gcccgagcag cagg                    404

```

<210> 290

<211> 384

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 305
<223> n = A,T,C or G

<400> 290
ccaggcgctc cttgtcggca tcagggaggg tggccttgaa ctgctcatgg gctgtgggtca 60
gtccctggat ctctcaatg gtgtgcacaa tgaagggtgc ctgcagggtcc tccatggccc 120
cctccatcca gttgttgaag ggtgcagccc gcttggcata ctccaagtac agctgggtcaa 180
tggctctccag cagtttctcg gtccgctcca gagcttccct tcgcttctga gttagggccc 240
ccagattgtc ccaactggta cagatctttt ggcaacgggc gttgacactg ggtgagtcac 300
aatantccag ctcatgtgagc tcctgtgcga tggcggcaat ctgctccaca cggtcctggg 360
gggcagccag gccactctcg aagg 384

<210> 291
<211> 278
<212> DNA
<213> Homo sapiens

<400> 291
aaagtttatt tttactatct ctttatcact ttattgtatc atcaccattg gtttcataat 60
gtaaatacta tatgttgaac aaattaaatg tcaaaatttt ttattaccat agtccatggt 120
aatagtgggg ctttcagggt ttttagagatt ttttttgttg ttgttaacat tcattgcaaa 180
agtactagat ggtgtataac tctagagttg aattttaagg gattccctaa tatgtatact 240
atctttttat ctgaagtaat aaataaacia tgatcttg 278

<210> 292
<211> 177
<212> DNA
<213> Homo sapiens

<400> 292
ccttggcccg gtcattcttg tccagtttga taggttcagg aaattcggtg tacagctcca 60
cctccgtttc ctgcttaagt gcattccgtg caatcgtctg gaacgcctgc tccacgttga 120
tggcctcctt ggcactgggc tcaaagtagg gaatgttggt tttgctgtag caccagg 177

<210> 293
<211> 403
<212> DNA
<213> Homo sapiens

<400> 293
aaaaagaagg acttaggggtg tcgtttttcac atatgacaat gttgcattta tgatgcagtt 60
tcaagtaacca aaacggttgaa ttgatgatgc agttttcata tatcgagatg ttcgctcgtg 120
cagtactgtt ggtaaataga caatttatgt ggattttgca tgtaatacac agtgagacac 180
agtaatttta tctaaattac agtgcagttt agttaatcta ttaatactga ctcatgtgtc 240
gccttttaaat ataaatgata tgttgaaaac ttaaggaagc aaatgctaca tatatgcaat 300
ataaaatagt aatgtgatgc tgatgctgtt aaccaaaggg cagaataaat aagcaaaatg 360
ccaaaagggg tcttaattga aatgaaaatt taattttgtt ttt 403

<210> 294

<213> Homo sapiens

<220>

<221> misc_feature

<222> 426, 432, 634, 668

<223> n = A,T,C or G

<400> 297

```

aaataacagc atgtaaaata ttaaaataca agctttcaaa aataaataca taaataagta 60
gaaccctcgt aagaaatagt caaacacatt aagtcctttc cagctgtccc tagaaagctg 120
ctgtttctctt ttctattttc agctctggta agggcaggga ccaccctgca ggaagtgtca 180
atgatacgct gataagcttc ttactttctc cctgtcagtt ggtgctcccc ctgtgatgag 240
aaaagggtta ctgttgcagg tgctaaggaa ggctgctctt ctgtcactct gaagttgctt 300
ggagggatgt ccccatgcag actctctccc agccctccac tcagggaagg tctgtctgta 360
cccactgcct tctatagcag aaaacttgca ctctgaaatg cttttttttt ttttcaagaa 420
agaagnggct gnggactcaa ctagattctt ggtttgaaaa agccaaaaaca tattgggtcac 480
tgattgtcac attgggttag aaatgtccat tcatgatctc ccttaagctg cacacaaccc 540
tatgaaataa ctaccattat ctaccctatt ttgctaaagc tcaaagagat taaataatgt 600
tgacagggat cttagccttg aactcactga aggngttact gcaaagttct gctcttcacc 660
aagaaggntt acaggccaaa g                                     681

```

<210> 298

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 68, 72, 169, 182, 262, 263, 264, 269, 275, 335, 343

<223> n = A,T,C or G

<400> 298

```

cctggcttaa gaccagacat ttgaagaagg ctccaggcag ggaaaggaaa ggagaggcca 60
gccccacnct gnccctctcc tgccccacag tctccagcaa cacaaggcgg ccagtggacc 120
gtgaaccatt tatttccaaa ctataaagaa acctgctctc tgagaaaana cactgcccag 180
gngatgaagc tccagccctt ggagggtccaa aaccagtc aaactcagtc cctttagaaa 240
gctgctgtgc cttggaaatg annntcggnt gtcanagcct gggaagtgtt gggaagaacc 300
agcccactcc cctctctgct tgcgattcca gcgcncgttg ggnccagatc tgg                                     353

```

<210> 299

<211> 560

<212> DNA

<213> Homo sapiens

<400> 299

```

aaagttcaag gactaacctt atttatttgg gaaaggggag gaggaaggaa atgatatggt 60
accagacac tgggctaggc tgcaacttta tctcatttaa tactcccagc tgtcatgtga 120
gaaagaaaagc aggctaggca tgtgaaatca ctttcatgga ttattaatgg atttaagagg 180
gcatcaatca gctcaactca agatttcata atcattttta gtatttagat tgtgcctcaa 240
agttgtagta cctcacaata cctccactgg tttcctgttg taaaaacctt cagtgaagtt 300
gaccattgtg ctcttggctc ttgggctgga gtaccgtggt gagggagtaa aactagaag 360
tcttttagtac aaaactgctc tagggacacc tgggtgattcc tacacaagtg atgtttatat 420
ttctcataaa gagtcttccc tatcccaagg tcttcatgat gccagtagcc atatatgata 480
aattatgttc agtgataact tagttatcag aaatcagctc agtggctctc cccgccatga 540

```

ttcacatttg atgagttttt

560

<210> 300

<211> 165

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 120

<223> n = A,T,C or G

<400> 300

aaaaactaca taggggtgtg tgtgtgtgtg tatgtttatt ttatacacac atatttgtat 60
attctaatat attactaagg caattttaat gaattacat gtatataaaa aaatatctgn 120
cacttggcac acaggtttgt atgtatgtgt atatatatat gtatg 165

<210> 301

<211> 438

<212> DNA

<213> Homo sapiens

<400> 301

aaaatatatg tatttaaaaa caaaaagcaa cagtaatcta tgtgtttctg taacaaattg 60
ggatctgtct tggcattaaa ccacatcatg gaccaaagt gccatactaa tgatgagcat 120
ttagcacaat ttgagactga aatttagtac actatgttct aggtcagtct aacagtttgc 180
ctgctgtatt tatagtaacc attttccttt ggactgttca agcaaaaaag gtaactaact 240
gcttcatctc cttttgcgct tatttggaaa ttttagttat agtgtttaac tggcatggat 300
taatagagtt ggagttttat ttttaagaaa aattcacaag ctaacttcca ctaatccatt 360
atcctttatt ttattgaaat gtataattaa cttaactgaa gaaaagggtc ttcttgggag 420
tatgttgtca taacattt 438

<210> 302

<211> 172

<212> DNA

<213> Homo sapiens

<400> 302

ccaaaacagg agtcctgggt gatatcatca tgagaccag ctgtgctcct ggatgggttt 60
accacaagtc caattgctat ggttacttca ggaagctgag gaactggtct gatgccgagc 120
tcgagtgtca gtcttacgga aacggagccc acctggcatc tatcctgagt tt 172

<210> 303

<211> 552

<212> DNA

<213> Homo sapiens

<400> 303

ccagcctgtt gcaggctgct tcgtageggg cgtcggctgc ggacttcct tcccgggtct 60
ggatcttttc atcctaccag atgagaaagg gaatgagtga atggagtgc cccgcaccct 120
gtcactttcc tgagacatga ctgccaggaa gaagagctgc tctggtctcc atcagggtctg 180
gcaggacaaa ctgaccagtg agtcagtagg cagagttcac actgaaaaag ggcacaaggg 240
ctgtcccaca atgggaggaa atggggtctc agaacttcta cttctctgaa aactaagaca 300
caattgggac aaccaccacc cccgtgtgag atttctcacc tcgagacagg acaagatgaa 360

```
gttcaagggt ttttctgggg taaagacctt gaagagccca tcacaggcca acaaaatgaa 420
cctacaacac cagggagaaa tataaacggg ttttagggcc aaccaaaaaa taaaaaataa 480
aaaaagggcc tggagatgga gataaaataa atatttgtcc aactattcaa aggctaaggt 540
ttttttttct tt 552
```

```
<210> 304
<211> 601
<212> DNA
<213> Homo sapiens
```

```
<400> 304
cctttgattc ttggtagtag attgcatgta aaatgtttat aagaagctac ttttccttca 60
tggaagaaa ttcccacatg agattcataa attcttagac tccgtggctt ctttggtccg 120
gaatgcttaa actcatatga gtgttctgga tcccagtgtg tccaatcata attcacatta 180
tcaccttcac gaaccacata ctttgcccac ggtgaaatac gatacaagat ctctccgctt 240
ttactagtaa taactacctt taatttggat ccatgaggca cgagtacaga tttattctgc 300
tttggtggga tatacagctc ccattttcca taatccagtt ttttgtatgg gtacgaaaaat 360
ggattccaac cattaaaatc tccagtaaga aaaactcctt ctgctccggg ggccattct 420
ttgcagtata aaccaccatc agcacatctg tggacgcaa atgattcata gcctctggaa 480
aacttatcaa taccaccttc attttctcca atgttcttca aaatttggct aaactgttta 540
tacctgcgct ggaagtccac ggcgtagggc ttcaagtacc ggtcgatctc caggagtctg 600
g 601
```

```
<210> 305
<211> 401
<212> DNA
<213> Homo sapiens
```

```
<400> 305
aaataacagc atgtaaaata ttaaaataca agctttcaaa aataaatata taaataagta 60
gaacctcgt aagaaatagt caaacacatt aagtccttcc cagctgtccc tagaaagctg 120
ctgttctctt tttcattttc agctctggta agggcaggga ccaccctgca ggaagtgtca 180
atgatacgtc gataagcttc ttacttctct cctgtcagtt ggtgctcccc ctgtgatgag 240
aaaagggtta ctgttgacgg tgctaaggaa ggctgctctt ctgtcactct gaagttgctt 300
ggagggatgt ccccatgcag actctctccc agccctccac tcagggaagg tctgtctgta 360
cccactgcct tctatagcag aaaacttgca ctctgaatg c 401
```

```
<210> 306
<211> 313
<212> DNA
<213> Homo sapiens
```

```
<400> 306
aaactgacta tggattcctt gaaggtctgg cagttgttga tgatggcgat catgtactga 60
acgtagcagt gagggtgctg ccgattcctc aggtgctctt ctttatacag ctgcgcttca 120
tctttatatc tgaggacaga caggcttcgg tcagacagca ctaagggcaa catggagctg 180
tttcaaatgc cagctgacg tcacgcctgg cctgaaattt cacatcacta acatctgacc 240
ggatgagcct ctaaaaataa aacaatcttt agacgatcca gactaatgga aggacagaga 300
ggttgattac ttt 313
```

```
<210> 307
<211> 366
<212> DNA
<213> Homo sapiens
```

<220>
 <221> misc_feature
 <222> 11, 219, 232, 313, 321, 327, 342
 <223> n = A,T,C or G

<400> 307
 aaagatgctg ntaatgaaca ttacggacaa ttcatggtgt ggctagttgg taacacttca 60
 gctgattttt cttatgagat ggaaaaaaaa aatcagccaa gtaagggcac atcttcactt 120
 catttataag tcagcatcca aggtaaaaga attctctgtt ggacttgaca tcaactcccat 180
 cctctgatac tcgcctactc tcttctcaaa gaagttagnt ctttccttcc antgaaatat 240
 tctcataaaa gtcaaattggg ttctctactc tgaaaacctt gctaaaaccc aattccagca 300
 taagtttgtc tgncaaaaac ncaatgnatt gcttcattaa antgcaattc atcccaatga 360
 gcttcc 366

<210> 308
 <211> 534
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 486, 529
 <223> n = A,T,C or G

<400> 308
 ccagctatca gctgacgtc ttctgtctgg acgctcgtcc tgcttctgac atcaaaatct 60
 totgtctcaa agtcagagtc atccaactcc tcaggggtcc ttatcatcag cactgctttc 120
 ctgatgtccc ggatgccatc atataccagg cggaagcat cgataaactc attctcatcc 180
 atgggctggg cagggtcoga gctgagggtc tccacggctg cttctacttg ctacgtaaaa 240
 cgtggcatga ctgtgttgga gagcagctta gtggcttcca gaaccttctc tgtgtagact 300
 cctggctcat agtcgtccat ctctgaggtg actacgtgaa tgaccgggc tgcccggcct 360
 cgaattgcac cagctgtgog gccaggccat ccacatcctt ctcttgaga gcaatgacac 420
 atttggtcac atcttccaaa atgtgattct ctgagacagc caagaagtca tcaatggaag 480
 taatgncatc gacagcatct gtgagaacac cgacttggtt ttccattgnt cttt 534

<210> 309
 <211> 164
 <212> DNA
 <213> Homo sapiens

<400> 309
 catactcctt acaactattcc tcatcaccca actaaaaata ttaaacacaa actaccacct 60
 acctccctca ccaaagccca taaaaataaa aaattataac aaaccctgag aaccaaagt 120
 aacgaaaatc tgttcgcttc attcattgcc ccacaaatcc tagg 164

<210> 310
 <211> 131
 <212> DNA
 <213> Homo sapiens

<400> 310
 aaaaatcatt tatctttcgg tgcttcaaca tgatgccaaa caaaaatcta ctgaataaaa 60
 atagcaagga aggggaatcaa acatttataa gatataatta ttatttttct gaccaaagt 120

caatgatttt t

131

<210> 311

<211> 626

<212> DNA

<213> Homo sapiens

<400> 311

```
cctatgtgcg ccagtttcag gtcatcgaca accagaacct cctcttcgag ctctcctaca 60
agctggaggc aaacagtcag tgagagtgga ggctccagtc agacccgccca gatccttggg 120
cacctggcac tcaagcactt tgcacgatgt ctcaaccaac atctgacatc tttcccgtgg 180
agcaacttcc tgctccacgg gaaagaggtc gatggattta cccctggacc cataagtctg 240
ttcatcctgc tgaagtcccc tccccattgc tccttcaagc caaaactaca ctttgctggg 300
tctgtcccc tctgagaaaag gggatagaaa gctccttcct ctatgtcctc ccacgcagat 360
ctgttctggg gatggagctt ccaacttcct cttgcagcag gaaagaatgc tgctcaccct 420
totgtcttgc agagtgggat tgtgggaggg attggcagcc ttcttctcca ccacctgtcc 480
agcttcctcc tggtcagggc tgggaccccc aggaatatta tgttgccgtg tgtgtgtgtg 540
tgtgtgtgtg tcttctttta gggagcagga gtgcactctg taattgaggg tagatgttgt 600
gtgtgctggg gaggggtcct tctgtt 626
```

<210> 312

<211> 616

<212> DNA

<213> Homo sapiens

<400> 312

```
aaaccaaaga aattaagaaa aaagacttca ttgcttgaat gacgcgaaca gctgtctgag 60
tcacctagac tttaacacca cctggggccc tgggaatgac gctgacgaga gatctgcaca 120
tagtaggcgt gggctccaaa tgtgtctcat agctgacttc acatcctcac aagtcagcct 180
cagatatgac ccaagggata cgtaccatct cttcttgaaa cagcgtgtca aattatata 240
atgtatgcaa aaaagagtaa tgtactaagc aaaccaagtt tcgtcttttt cttctgaatc 300
tgggttttaat gtgacctgtc atccccatct ttgaattta tgagctccat cttctctaga 360
ctgttaactt cttgaggaaa acatgctatt ttaccacctt tctactgtga atccctagcc 420
cttaagcaca gtctctggca cagaataaat acgaaatgaa tgagtgaatg aatggatgga 480
tgggtgaaga gaaaaggcaa tgcacaagat ttacctatca aaatccacca atggtcctta 540
aaaatggttt tgtcagtaga gatgctgaat atattcatat aatacattta tttcaatact 600
attaagaatt ctagtg 616
```

<210> 313

<211> 553

<212> DNA

<213> Homo sapiens

<400> 313

```
aaaaaatggc agcattgtac ttgaatcaga aagcttactg ggatttcctc atcgaaagta 60
gagattgcag ctaatcctag taccttttgt tagtaattac ttaaggcaca gtgcaaagtt 120
gaaggactgt tttggtacaa actcaagcca gctacatgta tgcttgctt ggtatccttg 180
ctagagcaca tgcgggtata ataccgtatt atacacaaca aggccaccct gttgtatctg 240
tgttacaatt aaacatcagt cccagaaagt gaaccctagt catttattat aggtgcccac 300
ctctgacttg gaacaaaatg ccactccatt catgttcatt tttgtcctgg agaggattta 360
tttcctaaaa gattctgaaa gccacaatat caatgtagtt cttcatagag aacttaagag 420
taaggctcaa aatggcctca aatgggctt cttggatgac ttccaacagt gactggcctt 480
ctcaacactg cagatgtctg agcactacca taacctaacg aagtgaggaa ggaggaggca 540
aattggattt ttt 553
```

<210> 314
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 314
 ccagcgactc cagcgggtggc agcaggcagt gcacgtactc tgggcctccc accagggtag 60
 tgaagggttc cagctgttct gccagggcca ggaggacctc atcttcatca tagatgggat 120
 ctgtaaggaa aggcagaagc tcacttcggg tcctttcaac cccaagggcc aaggcgatgg 180
 tggacagctt cttgatgctg ttgaggcgaa gctgaacgtc ctcatcgcg agttcgtcta 240
 tgagcaccgc gatggggtag agcgagtcgt cgccgtcggc cgccgccatc ttggctccgt 300
 ccctttcctg tcagactgcg gccagcgctg 330

<210> 315
 <211> 380
 <212> DNA
 <213> Homo sapiens

<400> 315
 aaaaatgaca ttgcgttttag cttattgtaa gaggttgaac ttttgtattt tgtaactatc 60
 ttttaagccct tcagtttata attcatataa aatgcctttt gtatttataa taatcctatt 120
 ttaatcagtg catgaaattt gcttttttaa agttcatttg aatgattatt ccttccctct 180
 aaagaaatga ttttggtaat gttgagaggt acctaccac aaatcctaac tgtaagtgtg 240
 ttcattggtta ttttcaaaag aattatgact cttccccaag agaatcctaa aaaacttgta 300
 ataaacctat aaagctgatt tgcataatga caaaattttg aatagcaaat ataggcaact 360
 catatatgta tataattttt 380

<210> 316
 <211> 222
 <212> DNA
 <213> Homo sapiens

<400> 316
 aaactacaga gggttttcca gctattatct ccttttagtt ctaaaagtaa cgacttatat 60
 taatgtttta taaaagatat tgatgaaaaa aaggtaatgc tgaaataaag gcgcttttag 120
 aaatatttaa ggacaacata aggtattaat attggaaaaa aactgtacat attttcaagc 180
 acaacactga aatattgcag cagtgtttta ctgaattgtt tt 222

<210> 317
 <211> 490
 <212> DNA
 <213> Homo sapiens

<400> 317
 ctttgaatga gcgtggagag cgattaggcc gagcagagga gaagacagaa gacctgaaga 60
 acagcgccca gcagtttgca gaaactgcgc acaagcttgc catgaagcac aaatgttgag 120
 aaactgccta tcctgggtgac tcttcttaag agaaactgaa gagtttggtc agcagttttt 180
 acaagaattc gggacctccg cttgcttctt tttttccaat atttgacac ttagagtggg 240
 ttttgttttt tcttttcaga tgtaaatgtg aaagaaaggg tggtgcattt ttacatttcc 300
 ctaatgatct tgctaataaa tgctacaata gcacggcctt cattttgggt ttttgctccc 360
 tcccactgtg tgtatgtgtg tatatgtatg ttttgaatat gttttcttta ttaaaaaata 420
 tttttttagt tttgaatatg aaatttggac caaatgataa actgcgctga gtctaaactg 480
 gcaacatgta 490

<210> 318
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 318
 cctggagtc aataaccacc cctcataacc acacctgtg catacaccag ccaagccttt 60
 cctgggtctgg gaagggaaga gaaaaaagac gcaggccacc tgggggttct gcagtctttg 120
 gtcagtccag ctttctatct tagctgcctt tggttccgc agtgtaaacc ttgcctgccc 180
 ggaggcagga ggcccagctg gacctccgag ggccatgagc aggcagcagc catcttgccc 240
 tcaagcttgc ctttcccttg agtccctctc tccctcggc tctagccaga ggtgtagcct 300
 gcagatctag gaagagaaga gctggggagg aggatgaagg 340

<210> 319
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 319
 aaagatgctg ttaatgaaca ttacggacaa ttcattggtg ggctagttag taacacttca 60
 gctgattttt cttatgagat ggaaaaaaaa atcagccaag taagggcaca tcttcagttc 120
 atttagaagt cagcatccaa ggtaaaagaa ttctctgttg gacttgacat cactcccatc 180
 ctctgatact cgccactctt cttctcaaag aagttagtct ttccttccag tgaaatattc 240
 tccataaagt caaatgggtt ctctactctg aaaaccttgc taaaaccag ttccagcata 300
 agtctgtctg ccacaaactc aatgtattgc ttcattagag tgcaattcat gccaatgagc 360
 ttcacaggca agg 373

<210> 320
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 320
 aaaaacaaaa ttaaattttc atttcaatta agaccctttt tggcattttg cttacttatt 60
 ctgccctttg gttacacaga tcagcatcac attactattt tatattgcat atatgtagca 120
 tttgcttctt taagttttca acatatcatt tatattttaa ggcagacact gagtcagtat 180
 taatagatta actaaactgc actgtaattt agataaaatt actgtgtctc actgtgtatt 240
 acatgcaaaa tccacataaa ttgtcattta accaacagta ctgcacgagc gaacatctcg 300
 atatatgaaa actgcatcat caattcaacg ttttgggtact tgaaactgca tcataaatgc 360
 aacattgtca tatgtgaaaa cgacacccta agtccttctt tttaaaaatg acattgcgtt 420
 tagcttattg taagagggtg aacttttgta ttttgtaact atctttaagc tcttcagttt 480
 ataattcata taaaatgcct tttgtattt 509

<210> 321
 <211> 617
 <212> DNA
 <213> Homo sapiens

<400> 321
 ccaaggcccc ttttgcagcc cagggtatg gtgccttctt gactctcagt atcctcgacc 60
 gatactacac accgactatc tcacgtgaga gggcagtgga actccttagg aaatgtctgg 120
 aggagctcca gaaacgcttc atcctgaatc tgccaacctt cagtgttcga atcattgaca 180
 aaaatggcat coatgacctg gataacattt ctttcccaa acagggtctc taacatcatg 240

```

tcttccctcc cacttgccag ggaacttttt tttgatgggc tcttttattt ttttctactc 300
ttttcaggcg cactcttgat aaatgggttaa ttcagaataa aggtgactat ggatataatt 360
gagccctctg gtccagggtc cagtttacct aatattacct cagaaaggat atggagggaa 420
gatgatcttt ttgccaggtc tgacttttct tcttgctccg ccctccatta acgctcagta 480
cccttttagca gctgacggcc ccacgttcta ctccatgctt ggcttccttt ccaactagct 540
ctttcatata ttttacttgc tagtatctcc attctctcta aagtagtggt tcttttttgc 600
cttaaactta aattttt 617

```

```

<210> 322
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<400> 322
aaaaagaagg acttaggggtg tcgtttttcac atatgacaat gttgcattta tgatgcagtt 60
tcaagtacca aaacgttgaa ttgatgatgc agttttcata tatcgagatg ttcgctcgtg 120
cagtactgtt ggttaaatga caatttatgt ggattttgca tgtaatacac agtgagacac 180
agtaatttta tctaaattac agtgcagttt agttaatcta ttaatactga ctcagtgtct 240
gcctttaaat ataaatgata tgttgaaaac ttaaggaagc aaatgctaca tatatgcaat 300
ataaaatagt aatgtgatgc tgatgctgtt aaccaaaggg cagaataaat aagcaaaatg 360
ccaaaagggg tcttaattga aatgaaaatt taattttgtt ttt 403

```

```

<210> 323
<211> 298
<212> DNA
<213> Homo sapiens

```

```

<400> 323
ccagaattag ggaatcagaa tcaaaccagt gtaaggcagt gctggctgcc attgcctggt 60
cacattgaaa ttggtggctt cattctagat gtagcttggt cagatgtagc aggaaaatag 120
gaaaacctac catctcagtg agcaccagct gcctcccaaa ggaggggcag ccgtgcttat 180
atttttatgg ttacaatggc acaaaattat tatcaaccta actaaaacat tctttttctc 240
ttttttcctg aattatcatg gagttttcta attctctctt ttggaatgta gatttttt 298

```

```

<210> 324
<211> 78
<212> DNA
<213> Homo sapiens

```

```

<400> 324
ccatgggaag gtttaccagt agaatccttg ctaggttgat gtgggccata cattccttta 60
ataaaccatt gtgtacat 78

```

```

<210> 325
<211> 174
<212> DNA
<213> Homo sapiens

```

```

<400> 325
ccatcatggt caggaactcc gggaagtcaa tgggcccggt cccatctgca tccacctcat 60
tgatcatatc ctgcagctct gcttcagtggt ggttctgtcc cagggatctc atcactgtcc 120
ccaactcctt ggtggtgata gtgccatctc catccttgtc aaagaggag aagg 174

```

```

<210> 326

```

<211> 679
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 83, 606
 <223> n = A,T,C or G

<400> 326
 aaaactgaaa tacctcttaa aataatttga tccccagcgt ttgctctttt tgaagtaacc 60
 aacttactct taaaaaggat ggntgccaag atggaaagtc ttactgggtt ttcattgttaa 120
 cctattcttt ggacataact atgaattttg tatacaatgc acttcatgaa aagttgtggc 180
 tccccagat tgcccacaag tgtgatcttg aagtcctaaa catttgtcca tgtaagcttc 240
 aaaacagcgt taactgagtt attcaagtag cagtacttaa agatacaatt cttgaagcag 300
 tttcaatggg ttctgatcca aataatcagt ttctgaacat tactacttca cataatagag 360
 tccatcttca gtttcttctc actttctctt tcccttttgg gtttctttt tgtggcctga 420
 ggccaccagt tctttgggta ctatcaagat acttccatca tgggtacact ggagagcata 480
 gtggttgagg ttgaactggcc taccttggtc atctcttaat ctactaaaaa tatcatgata 540
 aaggtcagtc agtttctgtt tcattatgtt aatagctttg gtacattgtg cttgctctct 600
 cttaanagtt tcttcttttg cttgcaagtt acatacatca tcttctaaat tcaaaattat 660
 gtccattttg gcgtttacc 679

<210> 327
 <211> 619
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 137, 490, 493
 <223> n = A,T,C or G

<400> 327
 aaaataagtt actggtaaat ggagttgcat tctatagtc cttataaaat attaacaaaa 60
 tatttataac tggaacctta atgaaatgta tcatcaaacc aggtaaaagc aacttgtccg 120
 cagttacca agcctanata cgcgttagat gcgccttttc cggcctgtgc gtctgctctg 180
 gttcctctca ggcagcaaag ctggggaagg aagctcaggc aggagcctcc ccgacgccac 240
 aacggcaca gacagagcta aagcaccgca ctttgcctca ctaacctttt acttaaataga 300
 ggttttgcca aatccacatc tggaaaccgc tcacacccat ttgcaaggat gtttgttctt 360
 tgatgaaact gcatctctac tgcacatgag ggctttcatt gtaggacaag aggagagttc 420
 gtttattttt gtaactgttt tacatgttcc gattagttaa tcggtagctt atgtcatttg 480
 ctatgcctgn agnottteta tctctcctta ctaaaacatt acttcaaatt tgaattgacc 540
 cttggttata atttatttag ccgggatttg tgtgtcattg tagagcaact ctaattcaag 600
 aatagtgaca acttttaag 619

<210> 328
 <211> 132
 <212> DNA
 <213> Homo sapiens

<400> 328
 aaatccaaat acaaaagcat agtctctgca agattttgtt ctttgaattt cttgatattg 60
 taattgatta ttgataactg tcatcatgaa attatctctc aataataaga taaataaact 120


```

aaaaagggaa ccattccaat tttccctccc caagaaaatg tctcacaatt acaaagtaga 480
aaaacagccg ttcataaatg caaaaaaatt ctgatttata tatgaaataa tttctagatc 540
aattcaacat atttgatgac atttggtgag ttt                                     573

```

```

<210> 332
<211> 555
<212> DNA
<213> Homo sapiens

```

```

<400> 332
aaatttgaaa gttgtaagca ctgatgttaa tgtgattgat cagcatgggc atatgtaaaa 60
tgtccttttc tggttgcctc tctatgctat tgtgttcaga tacttacacc ataattaaac 120
agtaagttat agacttgctg agtttggcat agatagtgcg ctcatttaat ctgtgcctct 180
caaaacttca gaatttagc atattaccac aaataatttt tggtgaaact attgagatat 240
taaaattttt gaaatcacta ctgttacctg ttatagaaaa tagtgttggc ttagtctagt 300
ctctgtgtaa ctggttacat tttgatggtt gtctatactc aactggatat gtgtatgtaa 360
attagaaaaat acatacctat ccagacataa atgctaagta acattttttt ctccctccaa 420
ctacataaatt tgtagctcat cttttttcct taatcctttc ctaacttgtc gcagcagttt 480
gaatttccca gatatttatg tttgaacata atggctcaga atacatatat gaacatcata 540
gttgatatata ttttt                                     555

```

```

<210> 333
<211> 460
<212> DNA
<213> Homo sapiens

```

```

<400> 333
aaatttcttt caacagtcta ttgggggtcca aaaagcatat atcaaaacaa aaataacaaa 60
agcaaaacaa aatgctacat gtaaaagcta aagaaagaaa atgcagcata ttcaggttct 120
ttttcttgag gtacctatat aaatttaatc acctgcccc aagtcctctc gttagggttaa 180
aaacacaatg cgtcctgggg agccaattgc ccggcacgtc ttattactga gaaagtgcaa 240
gaatgctgat catcttatgc agcatactaa aggatgattt actctttaca aaatagagct 300
taagtatcaa cctgatggaa gttagaaaat taaaaacatt taagtagaat catctctctc 360
tctatttttg agatcctgca gcaaaaagcc tcccaaatca actttcaaag ttctgccatt 420
aagggaatgtt ggttctcttg taaaattcag agatctcttt                                     460

```

```

<210> 334
<211> 190
<212> DNA
<213> Homo sapiens

```

```

<400> 334
ccaaggaagg ctgtgctcta gccatcttga cctgtctctg aaaccacctg ggggacaagg 60
ctgatagaga cctgtgcaga tgtctctctc tgtgcccctc actcatctca ctggatctgt 120
ctgccaaccc tgagatcagc tgtgccagct tggaagagct cctgtccacc ctccaaaagc 180
ggccccaagg                                     190

```

```

<210> 335
<211> 394
<212> DNA
<213> Homo sapiens

```

```

<400> 335
aaatttggac agacttctag cggacagtta cttctcaaga attttctata caaaagctgt 60

```


<400> 339
 ccttccctcc ccaccacat caacctcttc aaaacctact ccctccctct aagtatctct 60
 caacacagta tgtctggggc tagatttcaa aaccacgta atgaaaaagt cagttttaca 120
 agcctaattt tgttgTTTTT ttttttatat caattaacgt taaaaattgc atcaactatt 180
 taattcatga ggatctttca tattaataatt taaccttaag attcaaccgc catgtgcttt 240
 tataaaggaa acatttttta gagacgtctg agctcacttt tacatggtgg tgcctaactgc 300
 cgttaatggt tgtgatttt 319

<210> 340
 <211> 278
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 30, 31, 44, 58, 70, 71, 106, 140, 148, 156, 164, 171, 174,
 180, 187, 190, 196, 219
 <223> n = A,T,C or G

<400> 340
 ctaataaaat gaattaacca ctcatcatn natctacca ccnatccaa catctccnca 60
 tgatgaaacn ncggtcact ccttgggcgc tgcctgatcc tccaantcac cacaggacta 120
 ttcttagcca tgcactactn accagacncc tcaacngcct ttnatcaat nggncacatn 180
 actcganacn taaatnatgg ctgaatcacc cgctacctnc acgccaatgg cagcctcaat 240
 attctttatg ctgcctcttc ctacacatgc gggcgagg 278

<210> 341
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 341
 ccagcatggg gctgcagctg aacctcacct atgagaggaa ggacaacacg acggtgacaa 60
 ggctttctaa catcaacccc aacaagacct cggccagcgg gagctgcggc gccacctgg 120
 tgactctgga gctgcacagc gagggcacca ccgtcctgct cttccagttc gggatgaatg 180
 caagttctag ccggtttttc ctacaaggaa ttcagttgaa tacaattctt cctgacgcca 240
 gagaccctgc ctttaaagct gccaacggct ccctgcgagc gctgcaggcc acagtcggca 300
 attcctacaa gtgcaacgcg gaggagcacg tccgtgtcac gaaggcgttt tcagtcaata 360
 tattcaaaagt gtgggtccag gctttcaagg tggaagggtg 400

<210> 342
 <211> 536
 <212> DNA
 <213> Homo sapiens

<400> 342
 aaagaacaat gggaaaaaca agtccgtggt ctacacagatg ctgtcgatga cattaacttcc 60
 attgatgact tcttggtgtg ctacagagaat cacatttttg aagatgtgaa caaatgtgtc 120
 attgctctcc aagagaagga tgtggatggc ctggaccgca cagctggtgc aattcgaggc 180
 cgggcagccc gggtcattca cgtagtcacc tcagagatgg acaactatga gccaggagtc 240
 tacacagaga aggttctgga agccactaag ctgctctcca acacagtcac gccacgtttt 300
 actgagcaag tagaagcagc cgtggaagcc ctacagctcg accctgccc gcccatggat 360
 gagaatgagt ttatcgatgc ttcccgctg gtatatgatg gcatccggga catcaggaaa 420

```
gcagtgtctga tgataaggac ccctgaggag ttggatgact ctgactttga gacagaagat 480
tttgatgtca gaagcaggac gagcgtccag acagaagacg atcagctgat agctgg      536
```

```
<210> 343
<211> 646
<212> DNA
<213> Homo sapiens
```

```
<400> 343
aaaactttcta ttcataaaaa gacataaaga aaacagtcaa gccacagact aggtgtaata 60
tctcaatata tatatccgac aagagaattg catctagaat gtataaagaa tttctatgac 120
ccaattatag ctatcaggga tatacaaatt aaaacaaaaa tgaaacatca ctacacaccg 180
attggaatgg ttaaaaagga aaaatactga caacaccaat atttgtaaag acaggaggta 240
ccagaactct cattcattat attcataaat tgacaaatat aaaaactgct atagtagggc 300
agtcttcctt agaaagggat tgtgggcatg acagagaaca atattaatct gtccattata 360
ttccttaact gtaaaatgga gaccatatgt tccaccagct tcacttggtg attatgatac 420
atggctatta agagaactcaa atgactccat ttcatacaact aatatgccct gtcaattcta 480
cttctaaagt atcccatggt ctatccaatg tcataccact atcataatgt aagtgttcat 540
aactctctat aatattttcaa taatctaact ggtctcaatg cctgtagtag aaattgcaga 600
ttgggctccc caattttctgt tccctaggaa ggctgagaaa gctttt      646
```

```
<210> 344
<211> 383
<212> DNA
<213> Homo sapiens
```

```
<400> 344
cctgcacccc agtataaggg cctccccagc tgagtaagaa gctgcttccc ctctctctcat 60
aggccaagcc tatttgtgtga aaccatctca tggctcttgt gacgtagacc atttttgaaa 120
ccgtctcatg gtcttggtga cgtagaccgt ttgcttcttt aactccagcc gcggaatgac 180
attagtggaa ccgggctagg gaactgctgg aagttcagga tgccaccacc ttgaacacct 240
aggccaggga tccccaccat gtcccggtt tctttcttcg agagtataga accgttcatt 300
cttgctttgt gtcccattcc atctcttgaa aaaatgtagt ctttgaatgt gtgaaaatct 360
agggacattc aatctagtct ttt      383
```

```
<210> 345
<211> 263
<212> DNA
<213> Homo sapiens
```

```
<400> 345
cctccccctt ccctttgtgt gtgggaggag ctctgtgtgt ccttggccgc ttactggaag 60
ggcgtttttc agagctgcag ggacagggtg agcagctgaa gggctaggag ggaagccggc 120
ccccgctctg cagaagctgc atttcagctg aatctgtgtt tcagcctcag ttggttgac 180
cgtagcccc tctcctccc gatggctcatg tttttgtcac attagagaat aaacagccac 240
acacacattt ttttttttcc ttt      263
```

```
<210> 346
<211> 132
<212> DNA
<213> Homo sapiens
```

```
<400> 346
aaatccaaat acaaaagcat agtctctgca agattttgtt ctttgaattt cttgatattg 60
```


taatttgatta ttgataactg tcatcatgaa attatctctc aataataaga taaataaaact 120
agcatatgaa tc 132

<210> 347
<211> 564
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 484
<223> n = A,T,C or G

<400> 347
cctgggtatc cagggaggct ctgcagccct gctgaagggc cctaactaga gttctagagt 60
ttctgattct gtttctcagt agtcctttta gaggcttgct atacttggtc tgcttcaagg 120
aggctcgacct tctaattgtat gaagaatggg atgcatttga tctcaagacc aaagacagat 180
gtcagtgggc tgctctggcc ctgggtgtgca cggctgtggc agctgttgat gccagtgtcc 240
tctaactcat gctgtccttg tgattaaaca cctctatctc ccttgggaaat aagcacatac 300
aggcttaagc tctaagatag ataggtgttt gtccctttac catcgagcta cttcccataa 360
taaccacttt gcatccaaca ctcttcaccc acctcccata cgcaagggga tgtggatact 420
tggtcccaaag taactggtgg taggaatctt agaaacaaga ccacttatac tgtctgtctg 480
aggnagaaga taacagcagc atctcgacca gcctctgcct taaaggaaat ctttattaat 540
cacgtatggt tcacaagata attc 564

<210> 348
<211> 321
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 12, 23, 70, 80, 89, 101, 123, 131, 151, 168, 177, 185,
212, 220, 222, 233, 253, 255, 263, 264, 286, 287, 300, 302,
315
<223> n = A,T,C or G

<400> 348
gcncatgaac anggagcaac ganaagagat gtcgggctaa gggcccggga cgggcggcac 60
ccatcctgcn acggaacacn ttcgggttnt ggttttgatt ngttcacctc tgtttatatg 120
canctatattg ntocctoctcc cccaccccag nccccactt catgcttntc ttccgcncctc 180
agcncacctg ccctgtcctc gcggtgagtc antgaccacn gnttccctg cangagccgc 240
cgggcgtgag acnngaccc tcnntgcata caccaggccg ggcccnngct ggctccccc 300
gnggccctgt gaaanagctg g 321

<210> 349
<211> 255
<212> DNA
<213> Homo sapiens

<400> 349
ccatgacagt gaaggggctg ttaggaatat caacaccacc gaagcgcaca tagatcacat 60
atgtgcccgg cttggcagct gtgtagaaga tgtcataggt tccatcttca ttctcaatga 120
catcggcctc ggcctcagtg ccatctgggg tcagaaccgt gcaggtcact ttacccttcc 180

```
cggcagtctt ggcatacaacc acaaagccta cttcttcgcc agttttcaca gtggaggcga 240
ttccaggacc cgtag 255
```

```
<210> 350
<211> 496
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 10, 27, 96, 110, 112, 309, 360, 447, 455
<223> n = A,T,C or G
```

```
<400> 350
gggcttattn gctcacaata tcattcnctt ttggaactat ggccaattga agctacacac 60
tgaatttatt aatacagcat taagtttctt tgtgtnaaaa aatctttgtn cncagtaata 120
aaaaaagata aggcaagatg cattaaacat gaaaccttct ggctcttttc ctctgcgttt 180
ttacagagcc actgatgact atctgcaaca aaagagttaa gtttctgatt ttccgtatca 240
agcatcttat gccttttgctg tggtaagaat tctggccaag caccctgaag gacagatgct 300
ggatgatggc tttggcactt atgctggcaa actgagcttc tttcccttga gtacttttgn 360
aatgtacaag tagaagaagt cacaagtata ggatggctct gactacgccg gccaccacag 420
caatgagggtc aaagaagccc tcaaagnaga agcgnccaga tccagttgac aagatacaaa 480
gcacgataga ggccca 496
```

```
<210> 351
<211> 109
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 49
<223> n = A,T,C or G
```

```
<400> 351
ccatagtga gcttggaat gactgttact gcagcatctg ggctgccanc cacagggaag 60
ggccaagccc catgtagccc cagtcactct gccagcccc gctccttg 109
```

```
<210> 352
<211> 384
<212> DNA
<213> Homo sapiens
```

```
<400> 352
ccttcgagag tgacctggct gccaccagg accgtgtgga gcagattgcc gccatcgcac 60
aggagctcaa tgagctggac tattatgact caccagtggt caacgcccgt tgccaaaaga 120
tctgtgacca gtgggacaat ctgggggccc taactcagaa gcgaaggga gctctggagc 180
ggaccgagaa actgctggag accattgacc agctgtactt ggagtatgcc aagcgggctg 240
cacccttcaa caactggatg gagggggcca tggaggacct gcaggacacc ttatttgtgc 300
acaccattga ggagatccag ggaactgacca cagcccatga gcagttcaag gccaccctcc 360
ctgatgccga caaggagcgc ctgg 384
```

```
<210> 353
<211> 345
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 19, 41, 59, 110, 124, 131, 230, 231, 239, 245, 247, 273,
280, 284, 285, 296, 303, 325, 343
<223> n = A,T,C or G

<400> 353
ccttggtcag gatgaagtng gctgacacac cttagcttgg ntttgcttat tcaaaagana 60
aaataactac acatggaaat gaaactagct gaagcctttt cttgttttan caactgaaaa 120
ttgnacttgg ncacttttgt gcttgaggag gccattttc tgcctggcag ggggcaggta 180
tgtgccctcc cgctgaactcc tgctgtgtcc tgagggtgcat ttctgttgn ncacacaang 240
gccangntcc attctccctc ccttttcacc agngccacan cctnntctgg aaaaangacc 300
agnggtcccg gaggaaccga tttgngctct gcttggacag canag 345

<210> 354
<211> 712
<212> DNA
<213> Homo sapiens

<400> 354
ccatctacaa tagcatcaat ggtgccatca cccagttctc ttgcaacatc tcccacctca 60
gcagcctgat cgctcagcta gaagagaagc agcagcagcc caccaggagg ctccctgcagg 120
acattgggga cacattgagc agggctgaaa gaatcaggat tccatgaacct tggatcacac 180
ctccagattt gcaagagaaa atccacattt ttgcccacaa atgtctattt ttgacggaga 240
gtctaaagca gttcacagaa aaaatgcagt cagatatgga gaaaatccaa gaattaagag 300
aggctcagtt atactcagtg gacgtgactc tggaccaga cacggcctac cccagcctga 360
tccctctctga taatctgcgg caagtgcggg acagttacct ccaacaggac ctgcctgaca 420
accocgagag gttcaatctg tttccctgtg tcttgggctc tccatgcttc atcgccggga 480
gacattattg ggaggtagag gtgggagata aagccaagtg gaccataggt gtctgtgaag 540
actcagtgtg cagaaaagggt ggagtaacct cagcccccca gaatggattc tgggcagtgt 600
ctttgtggta tgggaaagaa tattgggctc ttacctccca atgactgccc taccocctgcg 660
gaccccgcctc cagcgggtgg gggattttct tgactatga tgctggggga gg 712

<210> 355
<211> 385
<212> DNA
<213> Homo sapiens

<400> 355
cctcatagcc gcttagcaca gttacagaat gtctgaaggg gacagtgtgg gagaatccgt 60
ccatgggaaa ccttcgggtgg tgtacagatt tttcacaaga cttggacaga tttatcagtc 120
ctggctagac aagtccacac cctacacggc tgtgcgatgg gtcgtgacac tgggcctgag 180
ctttgtctac atgattcgag tttacctgct gcagggttgg tacattgtga cctatgcctt 240
ggggatctac catctaaatc ttttcatagc ttttctttct cccaaagtgg atccttcctt 300
aatggaagac tcagatgacg gtccttcgct acccaccaaa cagaacgagg aattccgccc 360
cttcattcga aggctcccag agttt 385

<210> 356
<211> 347
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 276, 328
 <223> n = A,T,C or G

<400> 360
 cctcttcagg ggcccagacc agggacaggg ccttggtttc cttctccctg gcttctgcct 60
 cagctctgtc cctctcatcc gcgtatttgg aagagatgtt tttctcctcg gctaacaact 120
 gatcaaattt cctctgcttc ttttccaggt tggacacgag ttgccgctgg ttgtccaaat 180
 caacaaccag gtcgtccagc tcctgctgaa gcctgttctt ggtcttttcc agtttatcat 240
 aagcggccgc cttctcctcg tactgctggg tgaggntctc gatctccttc tggaacctct 300
 tcttcccttc ttccagagct tccacggngc tggcaaagtc ctgcagcttc ttcttcagag 360
 cggagagctg gatgttga 378

<210> 361
 <211> 372
 <212> DNA
 <213> Homo sapiens

<400> 361
 aaatactggg ggccattaag agtggatgta gctaagagct tagctaacat tgccttttca 60
 ctctattttt ctccagatatt gtaagcattc tgtttttcaa tattgtagtt aatttttttg 120
 ctttcaacag cagccctagt aatgggtggag ttgttaatta atgtgtatat tgtactgaat 180
 ttctgtcagt taaggggttc actgcttttg tggaaatttg tggaaattgc tagcagggtc 240
 cacgatgttt atttttttct ccatgtttgta tatcattacc atttcacata cgcgttttcta 300
 tttttcttcc tctcctcctg atctccttaa aaatgaatct agagttagtg gctttttccc 360
 cctcctcttt gg 372

<210> 362
 <211> 544
 <212> DNA
 <213> Homo sapiens

<400> 362
 cctgagtcac ctagcatagg gttgcagcaa gccctggatt cagagtgtta aacagaggct 60
 tgcctctctc aggacaacag ttccaattcc aaggagccta cctgaggtcc ctactctcac 120
 tgggggtccc aggatgaaaa cgacaatgtg cttttttatt attatttatt tgggtggcct 180
 gtgttattta agagatcaaa tgtataacca cctagctctt ttcacctgac ttagtaataa 240
 ctcatactaa ctgggtttgga tgcctgggtt gtgacttcta ctgaccgcta gataaacgtg 300
 tgcctgtccc ccagggtggg ggaataattt acaatctgtc caaccagaaa agaattgtgtg 360
 tgtttgagca gcattgacac atatctactt tgataagaga cttcctgatt ctctaggtcg 420
 gttcgtgggt atcccattgt ggaaattcat cttgaatccc attgtcctat agtcctagca 480
 ataagagaaa tttcctcaag tttccatgtg cggttctcct agctgcagca atactttgac 540
 attt 544

<210> 363
 <211> 328
 <212> DNA
 <213> Homo sapiens

<400> 363
 aaactgggta tgacaaaagc ctttagttgt gtttcttgaa ctataaagaa aacaaatttt 60
 ggcagtcttt aagtatatat agcttaaaat ataattttta gcatttggca ccatatgtat 120

<210> 367
 <211> 382
 <212> DNA
 <213> Homo sapiens

<400> 367
 cctgagcggc tagtctttaa gatgcgcttc tatcgtttgc tgcaaatccg agcagaagcc 60
 ctccctggcgg caggcagcca tgtgatcatt ctgggtgacc tgaatacagc ccaccgcccc 120
 attgaccact gggatgcagt caacctggaa tgctttgaag aggaccacagg gcgcaagtgg 180
 atggacagct tgcctcagtaa cttgggggtgc cagtctgcct ctcatgtagg gcccttcac 240
 gatagctacc gctgcttcca accaaagcag gagggggcct tcacctgctg gtcagcagtc 300
 actggcgccc gccatctcaa ctatggctcc cggcttgact atgtgctggg ggacaggacc 360
 ctggtcatag acacctttca gg 382

<210> 368
 <211> 174
 <212> DNA
 <213> Homo sapiens

<400> 368
 ccttctccct ctttgacaag gatggagatg gcactatcac caccaaggag ttggggacag 60
 tgatgagatc cctgggacag aacccactg aagcagagct gcaggatatg atcaatgagg 120
 tggatgcaga tgggaacggg accattgact tcccggagtt cctgaccatg atgg 174

<210> 369
 <211> 216
 <212> DNA
 <213> Homo sapiens

<400> 369
 aaatctcatg ggttctatta aaaaaatata tatatagggc cccaatccat tgccatcaaa 60
 ttgcccttgg acttttccaa ggtatattat ggggttttat gcaaaattcc aagctaccat 120
 gtaacttttt ttaaccattt aacaaggagg gggaactgtt tcctaccttc ttacatgtt 180
 gtgcattgtt gtggtccaga aatgccaaac cttttt 216

<210> 370
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 370
 ccttggtcag gatgaagttg gctgacacag cttagcttgg ttttgcttat tcaaaagaga 60
 aaataactac acatggaaat gaaactagct gaagcctttt cttgttttag caactgaaaa 120
 ttgtacttgg tcacttttgt gcttgaggag gccattttc tgccctggcag ggggcaggtc 180
 tgtgccctcc cgctgactcc tgcctgtgtcc tgaggtgcat ttctgttgt acacacaagg 240
 gccaggctcc attctccctc cctttccacc agtgccacag cctcgtctgg aaaaaggacc 300
 aggggtcccg gaggaacca tttgtgctct gcttgacag cagg 344

<210> 371
 <211> 741
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> 644, 646, 689
 <223> n = A,T,C or G

<400> 371
 aaattacata tctaattgtg tgatttggtt aatgccatt tottcatcta agtgctaagt 60
 gctaagtgtg gcagtttggt ccctgctaca ctccaaggca caaaggaggt caaggaatgt 120
 gcaatggaaa tcagtttagat gaatgtgtta ggaaccttcc ctttaataaa gctggatccc 180
 aactagcccc ctacaccctc tcatcaccaa atattcctgc ttccctctac ctgcacttgc 240
 tgttctctcc tctgccacac aaatctacct ctcaagccta ggtcccacct gtttcatgac 300
 aactttccag actattccag aacctttaac catctctgac ctctcatcag atctatgttg 360
 tacataacac caattaatga gatcattact gctttatgct ctaattgctt cctgtattca 420
 aaatcttctc tccaaccaca taatgactcc cttaaacttct cttgtatttt ccaatgcctt 480
 gtacaagcac agaactggtc aatcaataaa tactactggg ttatttgagg aaaaaatgtt 540
 gccaaagcac atctttatca gaaaataaat caattcttct aaacttggag aaatcacccct 600
 attcctagta tgtgatctta attagaacaa ttcagattga gaangngaca gcatgctggc 660
 agtcctcaga gccctcgctt gctctcggn cctccctgcc tgggctccca ctttgggtggc 720
 atttgaggag cccttcagcc t 741

<210> 372
 <211> 218
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 57, 218
 <223> n = A,T,C or G

<400> 372
 ccgccagtgt gctggaattc gcccttggcc gcccgggcag gtaccacaac agcaggngctg 60
 agtgagaaat ctaccaacct ctacagtagc ccagatcac cggacacaac actctcacct 120
 gccagcacga caagctcagg cgtcagtga gaatccacca cctccacag ccgaccaggc 180
 tcaacgcaca caacagcatt ccctggcagt accttggg 218

<210> 373
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 373
 actgctaggg aatgctggtg tgtgcattga gccctggcgg ctgtgggagg tgggtggattc 60
 ttactgacg cctgagcttg tctgctggc aggtgagagt gttgtgtccg gtgatctggg 120
 gctactgtag aaggtggtag atttctcact caggcctgct gttgtggt 168

<210> 374
 <211> 154
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 25, 34
 <223> n = A,T,C or G


```

<400> 374
tgagaaatct accaccttct acagngagcc ccanatcacc ggacacaaca ctctcacctg 60
ccagcacgac aagctcaggc gtcagtgaag aatccaccac ctcccacagc cgaccaggct 120
caacgcacac aacagcattc cctggcagta cctc                                     154

```

```

<210> 375
<211> 275
<212> DNA
<213> Homo sapiens

```

```

<400> 375
actgccaggg gacagtgctg tgtcagttga acctgggctg ctgtgggaag ttgttgattc 60
ctgactgggg cctgaggttg tggctgtggc aggtaacagt gttgtatccg ttgagcctgg 120
gctgctgttg gaagttgtag aatgccgact gaggcctggc gtggtggtgc tgtcagggaa 180
tgctgttggt tgcgttgagc ctggtcggct gtgggaggtg gtggattcct cactgacgcc 240
tgagcttggt gtgctggcag gtgagagtgt tgttg                                     275

```

```

<210> 376
<211> 191
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 173
<223> n = A,T,C or G

```

```

<400> 376
actgccaggg gacagtgctg tgtcagttga acctgagctg ctgtgggaag ttgttgattc 60
ctgactggag cctgaggttg tggctgtggc aggtaacagt gttgtatccg ttgagcctgg 120
gctgctgttg gaagttgtag aatgccgact gaggcctgcc gtggtggtgc tgntagggaa 180
tgctgctagc g                                     191

```

```

<210> 377
<211> 476
<212> DNA
<213> Homo sapiens

```

```

<400> 377
ccgccagtgt gctggaattc gcccttggcc gcccgggcag gtacatttcc ttgtagactc 60
tgttaatttc ctgcagctcc tggtttggtc tggagcagat gatctcaatg agagagtcct 120
cgtcggttcc cagcccttcc atggaagctt ttagctcaga agcgtcatac tgagcaggtg 180
tcttcaatag gcccaaaatc accgtctcca ggtggccaga taaggctgac ttcagtgtctg 240
atgcaagttc ctttttggtc cttctctggt aggcgaaggc aatatcctgt ctctgtgcat 300
tgctgcggtt ggtcaaaatg ttgacaatgg tgacctcatc cacacctttg gtcttgatgg 360
ctgtttcaat gttcaaagca tcccgtcag catcaaagtt agtataggct ttgacagacc 420
catatgcact tgggggtgta gagtgatcac cctccaagcc gagcttgac aggatt         476

```

```

<210> 378
<211> 455
<212> DNA
<213> Homo sapiens

```



```

aactaactga cagcttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt 120
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt gaaattttgc 180
tgattcttta aatgtcttgt ttcccagatt tcaggaaact ttttttcttt taagctatcc 240
acagcttaca gcaatttgat aaaatatact tttgtgaaca aaaattgaga catttacatt 300
ttctccctat gtggtcgctc cagacttggg aaactattca tgaatattta tattgtatgg 360
taatatagtt attgcacaag ttcaataaaa atctgctctt tgtataacag aatacatttg 420
aaaa                                           424

```

```

<210> 382
<211> 408
<212> DNA
<213> Homo sapiens

```

```

<400> 382
actcttgaat acaagtttct gataccactg cactgtctga gaatttccaa aactttaatg 60
aactaactga cagcttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt 120
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt gaaattttgc 180
tgattcttta aatgtcttgt ttcccagatt tcaggaaact ttttttcttt taagctatcc 240
acagcttaca gcaatttgat aaaatatact tttgtgaaca aaaattgaga catttacatt 300
ttctccctat gtggtcgctc cagacttggg aaactattca tgaatattta tattgtatgg 360
taatatagtt attgcacaag ttcaataaaa atctgctctt tgtatgac           408

```

```

<210> 383
<211> 455
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 70, 72, 73, 184, 185, 330
<223> n = A,T,C or G

```

```

<400> 383
actcttgaat acaagtttct gataccactg cactgtctga gaatttccaa aactttaatg 60
aactaactgn cnccttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt 120
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt gaaattttgc 180
tganncttta aatgtcttgt ttcccagatt tcaggaaact ttttttcttt taagctatcc 240
acagcttata gcaatttgat aaaatatact tttgtgaaca aaaattgaga catttacatt 300
ttctccctat gtggtcgctc cagacttggg aaactattca tgaatattta tattgtatgg 360
taatatagtt attgcacaag ttcaataaaa atctgctctt tgtataacag aatacatttg 420
aaaacattgg ttatattacc aagactttga ctaga           455

```

```

<210> 384
<211> 376
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 276, 357
<223> n = A,T,C or G

```

```

<400> 384
actcttgaat acaaggttct gatatactg cactgtctga gaatttccaa aactttaatg 60

```

```

aactaactga cagcttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt 120
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt gaaattttgc 180
tgattcttta aatgtcttgt ttcccagatt tcaggaaact tttttttott ttaagctatc 240
cacagcttac agcaatttga taaaatatac ttttgngaac aaaaattgag acattttacat 300
tttctcccta tgtggggcgt ccagacttgg gaaactattc atgaatattt atattgnatg 360
ggaatatagc attgcc                                     376

```

<210> 385

<211> 422

<212> DNA

<213> Homo sapiens

<400> 385

```

acctgtgggt ttattaccta tgggtttata tcctcaaata cgacattcta gtcaaagtct 60
tggtaatata accaatgttt tcaaagtgtat tctgtcatac aaagagcaga tttttattga 120
acttgtgcaa taactatatt accatacaat ataaatattc atgaatagtt tcccaagtct 180
ggagcgacca catagggaga aaatgtaaat gtctcaattt ttgttcacaa aagtataatt 240
tatcaaattg ctgtaagctg tggatagctt aaaagaaaaa aagtttcctg aaatctggga 300
aacaagacat ttaaagaatc agcaaaaattt caaataaaaa attatgaaaa tattatcctc 360
attagtcat ttagtcccat gaaattaatt attttctctg cttgatcttg gtggacagtt 420
tc                                     422

```

<210> 386

<211> 313

<212> DNA

<213> Homo sapiens

<400> 386

```

caagtaggtc tacaagacgc tacttcccct atcatagaag agcttatcac ctttcatgat 60
cacgccctca taatcatttt ccttatctgc ttctagtcc tgtatgccct tttcctaaca 120
ctcacacaaa aactaactaa tactaacatc tcagacgctc aggaaataga aaccgtctga 180
actatcctgc ccgccatcat cctagtccctc atcgccctcc catccctacg catcctttac 240
ataacagacg aggtcaaaga tccctcccct accatcaaat caattggcca ccaatgggtac 300
tgaacctacg agt                                     313

```

<210> 387

<211> 236

<212> DNA

<213> Homo sapiens

<400> 387

```

cgccctcata atcatitttc ttatctgott cctagtccctg tatgcccttt tcctaacact 60
cacaacaaaa ctaactaata ctaacatctc agacgctcag gaaatagaaa ccgtctgaac 120
tatcctgccc gccatcatcc tagtccctcat cgccctccca tcctacgca tcctttacat 180
aacagacgag gtcaacgata cctcccttac catcaaatca attggccacc aatggt 236

```

<210> 388

<211> 195

<212> DNA

<213> Homo sapiens

<400> 388

```

acgccctttt cctaacaactc acaacaaaac taactaatac taacatctca gacgctcagg 60
aaatagaaac cgtctgaact atcctgcccg ccatactcct agtcctcatc gccctcccat 120

```

ccctacgcat cctttacata acagacgagg tcaacgatcc ctccottacc atcaaataca 180
ttggccacca atggt 195

<210> 389
<211> 183
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 31, 32, 60, 115
<223> n = A,T,C or G

<400> 389
taacactcac aacaaaacta actaatacta nnatctcaga cgctcaggaa atagaaacn 60
cctgaactat cctgcccgc atcatcctag tctcatcgc cctcccatcc ctacncatcc 120
tttacataac agacgaggtc aacgatccct cccttaccat caaatcaatt ggccaccaat 180
ggt 183

<210> 390
<211> 473
<212> DNA
<213> Homo sapiens

<400> 390
acaaagcagc aactgcaata ctcaagggtta aaacattaga aaagcatttg tgtgacaggt 60
atattacagt attatcaaaa tattacattt tcagacttac ttagcagata atcatccacc 120
agagcttaaa tcttttaaatt atttccatag tcttaaaaaa tatgtaatgt cagaatgcat 180
ataaaaagaa tgtaaaagga aacctaataa acaaatggaa taatgtaaca aataaatatt 240
tgatttcagt aactgttaat aatcagctca acaccaccat tctctctaaa ctcaatttaa 300
ttcttatagg aataatgaac tgtcaaatgc catggcataa ttatttattt ccaagctatc 360
atcaatgatt agaactaaaa aaaatttggc ataaaaaaat cacaattcag cataaataaa 420
gctattttta gcttcaacac tagctagcat ctctaagaat tggtgaaata agt 473

<210> 391
<211> 216
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 41, 42
<223> n = A,T,C or G

<400> 391
atttgtattt taggtttcct ttacatttct ttttatatgc nntctgacat tacatatttt 60
ttaagactat ggaaataatt taaagattta agctctgggt gatgattatc tgctaagtaa 120
gtctgaaaat gtaattttt gataatactg taatatacct gtcacacaaa tgctttttcta 180
atgttttaac cttgagtatt gcagttgctg ctttgt 216

<210> 392
<211> 98
<212> DNA
<213> Homo sapiens

<400> 392
 acttattttca acaatttctta gagatgctag ctagtgttga agctaaaaat agcttttattt 60
 atgctgaatt gtgatttttt tatgccaaat ttttttaa 98

<210> 393
 <211> 397
 <212> DNA
 <213> Homo sapiens

<400> 393
 tgccgatata ctctagatga agttttacat tgttgagcta ttgctgttct cttgggaact 60
 gaactcactt tcttcttgag gcttttgatt tgacattgca ttgaccttt tatgtagtaa 120
 ttgacatgtg ccagggcaat gatgaatgag aatctacccc cagatccaag catcctgagc 180
 aactcttgat tatccatatt gagtcaaatg gtaggcattt cctatcacct gtttccattc 240
 aacaagagca ctacattcat ttagctaaac ggattccaaa gagtagaatt gcattgaccg 300
 cgactaattt caaaatgctt tttattatta ttatttttta gacagtctca ctttgtcgcc 360
 caggccggag tgcagtgggt cgatctcaga tcagtgt 397

<210> 394
 <211> 373
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 283
 <223> n = A,T,C or G

<400> 394
 ttacattggt gagctattgc tgttctcttg ggaactgaac tcactttcct cctgaggcctt 60
 tggatttgac attgcatttg accttttatg tagtaattga catgtgccag ggcaatgatg 120
 aatgagaatc tccccccaga tccaagcatc ctgagcaact cttgattatc catattgagt 180
 caaatggtag gcattttccta tcacctgttt ccattcaaca agagcactac attcatttag 240
 ctaaacggat tccaaagagt agaattgcat tgaccacgac tantttcaaa atgcttttta 300
 ttattattat ttttttagaca gtctcacttt gtcgccagc ccggagtgca gtggtgcgat 360
 ctcagatcag tgt 373

<210> 395
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 327
 <223> n = A,T,C or G

<400> 395
 actgatcatt ctattttccc ctotattgat cccacctcc aaatatctca tcaacaaccg 60
 actaatcacc acccaacaat gactaatcaa actaacctca aaacaaatga taaccataca 120
 caacactaaa ggacgaacct gatctcttat actagtatcc ttaatcattt ttattgccac 180
 aactaacctc ctgggactcc tgctcactc atttacacca accaccaat tatctataaa 240
 cctagccatg gccatccctt tatgagcggg cgcagtgatt ataggctttc gctctaagat 300

```
taaaaatgcc ctageccact tcttacngca aggcacacct acacccctta tccccatact 360
agttattatc gaaaccatca gcctactcat tcaaccaata gccctggccg t 411
```

```
<210> 396
<211> 411
<212> DNA
<213> Homo sapiens
```

```
<400> 396
actgatcatt ctatttcccc ctctattgat ccccacctcc aaatatctca tcaacaaccg 60
actaattacc acccaacaat gactaatcaa actaacctca aaacaaatga tagccatata 120
caacactaaa ggacgaacct gatctcttat actagtatcc ttaatcattt ttattgccac 180
aactaacctc ctcggaacct tgcctcactc atttacacca accaccaac tatctataaa 240
cctagccatg gccatccccct tatgagcggg cgcagtgatt ataggctttc gctctaagat 300
taaaaaatgcc ctageccact tcttaccaca aggcacacct acacccctta tccccatact 360
agttattatc gaaaccatca gcctactcat tcaaccaata gccctggccg t 411
```

```
<210> 397
<211> 351
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 1, 7, 71, 93, 208, 276, 340, 345
<223> n = A,T,C or G
```

```
<400> 397
ngccgangta caaaaaaaaaa cacattccta gaaaaaggtt ttggcaaata gtaaaaatgg 60
gaggtcaaaa ncaaaaaaaaaa aaaaaacaaa acnaaaaaaa gaaaaaacca acaattcttc 120
aattcagtggt gcaaacatta tataaaaaata gaaatactaa ctctacaggc agtatttcct 180
gataaattat ttaaatagca tatctacnca atctgagata tctattccaa tggcaatgag 240
aaaataattt ataaaaataa agcaatggta taccanatga tagaaaaaaaa cataactttc 300
agaaattgta ttttaacattt caatgctatt tccttattgn gaatncttct c 351
```

```
<210> 398
<211> 363
<212> DNA
<213> Homo sapiens
```

```
<400> 398
acaaaaaaaaa gcacattcct agaaaaaggt attggcaaatt agtaaaaatg ggaggtcaaa 60
agcaaaaaaaaa aaaaaaacaa aacaaaaaaaa agaaaaaacc aacaattctt caattcagtg 120
tgcaaacatt atataaaaaat agaaatacta actctacagg cagtattttc tgataaatta 180
tttaaatagc atatctacac aatctgagat atctattcca atggcaatga gaaaataatt 240
tataaaaaata aagcaatggg ataccagatg atagaaaaaa acataacttt cagaaattgt 300
atttaacatt tcaatgctat ttccttattg ggaatacttc tctgcagagt ttttatgcta 360
tgt 363
```

```
<210> 399
<211> 360
<212> DNA
<213> Homo sapiens
```

<400> 399
 actgttttct cgtgggttcag ggggtgtgcat gaaggctctt aggagagcaa acacctgttc 60
 ctattctgta tgtccctccc tcatttcaaa tgagagtaac caattgagta aaataaccaa 120
 ataaccattg ccccaccatg aacatggggc ttgggaagac agtcctacaa tcttcatcat 180
 atatttaggt ttttaggcca gccagctctt tttttccaaa gctttctttt gaataccgcg 240
 ccgggcggcc cctaagggcg aattctgcag atatccatca cactggcggc cgctcgagca 300
 tgcacttaga gggcccaatt cgccctatag tgagtcgtat tacaattcac tggccgctcg 360

<210> 400
 <211> 87
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 12, 43, 83, 85
 <223> n = A,T,C or G

<400> 400
 ctgcacatat cnattacact ggcggccgct cgagcatgca tgnagagggc ccaattctcc 60
 ctatattgag tggaattaca atncnct 87

<210> 401
 <211> 328
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 206
 <223> n = A,T,C or G

<400> 401
 acccaggac acaaacactc tgcctaggaa aaccagagac ctttggtcac ttgtttatct 60
 gctgaccttc cttccactat tgtcctatga ccctgccaaa tccccctctg cgagaaacac 120
 ccaagaatga tcaataaaaa ataaaataaa attaaattaa aaaaaaaaaa agagaggaac 180
 ccacaaaaaa aaaaaaaaaa aaagtntata aaataaaaata ttgaagtcct ttccatttaa 240
 aaaaaaaaaa aagaaaaagc acggactctt tcatccagtt ctgatgtgat tatctctgga 300
 aggcattttc tctctctctt cctcctcc 328

<210> 402
 <211> 268
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 227, 253
 <223> n = A,T,C or G

<400> 402
 nacataatga caacatcttc actagactga gtgttcaagg atttgagatg attcgctatt 60
 catcacaccc cgaagattga gatccactgt atttacacaa agcaaagcca tgtcagcaag 120

ggactgtcaa cctgattctg agaacataaa cattcaaaat ttatttttcca gtgtttccttt 180
 ttggaaacca acaacacatc tttaatacct acacacacac acatctntac ctttaaaaaa 240
 aaaaaaaaag tгнаacttica cagatagt 268

<210> 403
 <211> 538
 <212> DNA
 <213> Homo sapiens

<400> 403
 acagtgatag ctccccctgg gcaatacaat acaagaacag tgggttttgt caaattggaa 60
 caaggaaaca gaaccacaga aataaataca ttggttaaca tcagattagt tcaggttact 120
 tttttgtaaa agttaaagta gaggggactt ctgtattatg ctaactcaag tagactggaa 180
 tctcctgtgt tctttttttt tttaaattgg ttttaatttt ttttaattgg atctatcttc 240
 ttctttaaca ttccagttgg agtatgtagc atttagcacc actggctcaa tgcgctcacc 300
 taggtgagag tgtgaccaa tcttaaagca ttagtgctat tatcagttac caccatttgg 360
 ggcttttatc cttcatgggt tatgatgttc tctgatgac acatttctct gagttttgta 420
 attccagcca aagagagacc attcactatt tgatggctgg ctgcatgcag acatttaaaag 480
 ctttttagaga atacactaca ccagggagta tgactactag tatgactatt aggaggggt 538

<210> 404
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 404
 tttttttata gatacaattg gctttttattt gtgattcatg agtcagggca gtttccattc 60
 tgcaaaatat agtgatagct cctactgggc aatacaacag tagaacagtg ggttttgtaa 120
 aatgggaatc caggaacaga agaataataa taaattgatt taaataaact gattgggttaa 180
 tttcagaata cttcatatta cttttttcta agagttaaag cagaaaggac tttcttactg 240
 tgctgactca gacagcctgg actctcatgt ttttaggaaa attttgtctg ttctgggac 300
 tacctgcttc 310

<210> 405
 <211> 559
 <212> DNA
 <213> Homo sapiens

<400> 405
 acaaatcaca attattaact cactggtagg gcagtgatga tcaaaccaat tgcattcatc 60
 catgctgtaa tgttctctct tggcactaaa ggctgactgc agccggcaaa aaagaatgta 120
 agtatgaatt tataaaaaa ttttagatgg ctgacaacgg atcttatttt taaagaatat 180
 gtctaattca gaggatcgac aactaatcca tttcaataaa acaatgggga attttttatt 240
 gaataaaaaat gtaatatgca taaaaactca agaaggcttt ttaaaaatac ttctctccca 300
 atcattatcc catacttcat gctaattttt aaaagaatct tgaaatcttg aaaacaagat 360
 gaagagaatc ttgttttaag tgacaagtta acattattcc tatattaaat gtcaaaactgc 420
 tattaatgag tagaagtagg aacaaacccg gatcttagga tcctgtccag ggctcattcc 480
 ataactccta taccacaaag acaagatctg gaaccagaaa acagtcatca tccaatgtgc 540
 atcagccttg cggcaacag 559

<210> 406
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 406
 acaacagaat atctcgggaa tggactcaga agtatgccat gtgatgctac cttaaagtca 60
 gaataacctg cattatagct ggaataaact ttaaattact gttccttttt tgattttctt 120
 atccggctgc tcccctatca gacctcatct tttttaattt tattttttgt ttacctccct 180
 ccattcattc acatgctcat ctgagaagac ttaagttctt ccagctttgg acaataactg 240
 cttttagaaa ctgtaaagta gttacaagag aacagttgcc caagactcag aattttttaa 300
 aaaaaaaatg gagcatgtgt attatgtggc caatgtcttc actctaactt ggttatgaga 360
 ctaaaaccat tcctcactgc tctaacatgc tgaagaaatc atctgagggg gagggagatg 420
 gatgctc 427

<210> 407
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 407
 acaatttgta gttgtttcca ggtttggcta ataatcattc cttaacctag aattcagatg 60
 atcctggaat taaggcaggc cagaggactg taatgataga attaaattag tgtcactaaa 120
 aactgtccca aagtgtctgt tcctaataagg aattcattaa cctaaaacaa gatgttacta 180
 ttatatcgat agactatgaa tgctatttct agaaaaagtc tagtgccaaa tttgtcttat 240
 taaataaaaa caatgtagga gcagcttttc ttctagtttg atgtcattta agaattacta 300
 acacagtggc agtggttaaat gaagatgctg tctacaaggc agataatata ctgtttgata 360
 ctcaaaacat ttttcatttt gtttaaagta gaagttacat aattctatat ttttaagtct 419

<210> 408
 <211> 523
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 520
 <223> n = A,T,C or G

<400> 408
 acatttgatg ttatgtgaat gttgagtttt tttcttctaa ttttcacttc agcagtgttt 60
 agggctttca gatgccttat tccagtgtga acagaaaaag ttcataattt atgtgggttaa 120
 tgctttgatg tgtcacataa agagtagttt gtagaaaatg ttggcacaat ttttaacttct 180
 tagtggcttg tgacattata tattatatat atatgtatat atatctttat aacattcctg 240
 tgtttagtag tgtaaatggt ctgggcaagt ttttaatatt tgaatgcctt tggatattcc 300
 agcaataaag gcatcatggt ctgcaatagg atttcttact catttaccta ttttaacact 360
 aaaatagacc acaactgagc acaaatttct tttataaatg ttatagaagc agggaagaat 420
 aataaacaca tttgtgaatt gtgggttcagt ttatttatct ttagggaagg ctgatcattt 480
 atcttatagc acataacccc agcctcttat tcattatggn taa 523

<210> 409
 <211> 191
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 156, 190

<223> n = A,T,C or G

<400> 409

```

accccgtagt gatgagcact gactgggttca ctggccacat tttagttctt cataataata 60
ggccacaaaa gggctctgtg gtttgccctcc atgtgcaactg gccctctccc acccctaggg 120
ggcactcagt agctgctgag aaggcctgtc cacgangctg ttggaacccc ttcaataaat 180
acttagaagn a                                     191

```

<210> 410

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 399

<223> n = A,T,C or G

<400> 410

```

aacttgcca gtgtgttttt ggcgattaaa cataatcctg tgaatcagat taattcactt 60
gctgagtgtt catttgccgc atccctctgt tgggtcttgg gggccctcca cgacctogtg 120
gggctccccg tgggtccactc tgcccagagc ctgcttgtaa attctgctga tatccatccc 180
gttgatagcc agagtaatcc cggggagcac tgaactgaga ctgtgtataa ccactgtttg 240
gagtgttaga gaatgaaggc cggtaaccat catatcctcc tctgaatcca ttggcagggc 300
cccggtatcc attcatcaag cctctagcac cacgggagcc tccacgagac acaccacgac 360
tattgtaata gggctgattg ctacgtggaa atccagtnt ctg                                     403

```

<210> 411

<211> 384

<212> DNA

<213> Homo sapiens

<400> 411

```

acgtgaaatc ataacaacat gttctcttgt gtttggttc tcttgctcag catgatatat 60
ttacggttca cccatattgc atgtatcagg aatataatcc tttttattat tgagtagtgt 120
tctattgtat gtatatacca cagtttattt ctcccttcat cctttgctag attttggggg 180
tttttcacat tgcgtattc aagtataaac ctgctctcaa cattcatgtg caagtctttg 240
agtggacata tatttgccgt ttctcttgag tgaatgcacc ttgttgggtc acgtggctta 300
atttaaaaaa attttaatca ctgtggtgca tatgtagtga ttattagtga ttatctcata 360
attttatttt cttgatgact aatg                                     384

```

<210> 412

<211> 315

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 71, 314

<223> n = A,T,C or G

<400> 412

```

acaatatattc tcctttgaga agataggata tatgattttc ccaaaaatca caactttgaa 60
ggaagactta nttgctgact tcaattatat cctggaactg gcaacttgtg cccttccttt 120

```

```

gottcaaaaa aagtgtgaaga aagagtgata agatcaactt taatcattct tggatcttca 180
gcaaattcag gatcaatgta gaaaaacact ggcatactta cttcctcttg gggattaagc 240
ctttgttctt caaaacagaa gcactgtatt ttattgaaat actgtccacc ttcaaattga 300
acaatattgt atgna 315

```

```

<210> 413
<211> 554
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 479, 542, 551
<223> n = A,T,C or G

```

```

<400> 413
acagggtttca ctattacaaa tatatgatgt taaactaaca aactcatgac cttcaaagat 60
gtcttctgtcc cagcacacaca catttgtaat ttgtgtccat ttgctatttc ccttcttcta 120
taatcttcaa attatatagt tatgcattga gttccctatg catctcacc atctccttta 180
tctcagcctt ctcatacttt gccattctct tctttctgga aataaccagc acaacaattc 240
cagcaacaac tgctatcacc acaaccacaa taacagcaat aacaccagct tttagaccct 300
gcattgagaa ttccagggtgt ttttcatcaa cataataaat taaagtttga ccaggatcca 360
gatccagttg ttccccattt actgtcaggt gccattttct tagaatgaaa caaggattca 420
cctttaacat ctttttcaaa ataataagcc acatcagcta tgtccacatc attctgagnt 480
ttttgagaag aattttgaac cagatcaata gtgataacat tattctcata caaaatactc 540
gngataaatt ntgg 554

```

```

<210> 414
<211> 267
<212> DNA
<213> Homo sapiens

```

```

<400> 414
accagaaagg cacacgattt tacaatattt gttggaatta ccttactttt taacctcttc 60
atagcagttt tggtttgagt atattgatga aagccaaagt ctggtatcta aaacttgggc 120
caatgtttcc caactggtat atgtcaggct ttcccaatag cttaactgtg accctatacg 180
gatggctttt tagatagttc tatactgctg tattgtgtta gcacttttct ttgtcattaa 240
caacacactt taaatgacat ttgggtga 267

```

```

<210> 415
<211> 454
<212> DNA
<213> Homo sapiens

```

```

<400> 415
accggaacct gcagaaacag tgtgagaaat taagtcctgg ttcactgcgc agtagcaaag 60
atggtcaagg ccatggaaaa agcagaaaatt taccaagaaa gctgatacc atgtatagtt 120
ccactcatc tcaaatacat ctgctatctt tttaagctaa gtcctagaca tatcggggat 180
aacatggggg ttgattagtg accacagtta tcagaagcag agaaatgtaa ttccatattt 240
tatttgaaac ttattccata ttttaattgg atattgagt attgggttat caaacaccca 300
caaactttta ttttgtaaaa tttatatggc tttgaaatag aagtataagt tgctaccatt 360
ttttgataac attgaaagat agtatattac catctttaat catcttggaa aatacaagtc 420
ctgtgaacaa ccaactcttc acctagcagt atga 454

```

<210> 416
 <211> 370
 <212> DNA
 <213> Homo sapiens

<400> 416
 ccgacacggt gccagcgccc tgctgcggtgc ccgccagcta caatcccatg gtgctcattc 60
 aaaagaccga taccgggggtg tcgctccaga cctatgatga cttgttagcc aaagactgcc 120
 actgcatatg agcagtcctg gtccttccac tgtgcacctg cgcggaggac gcgacctcag 180
 ttgtcctgcc ctgtggaatg ggctcaaggt tcctgagaca cccgattcct gcccaaacag 240
 ctgtatttat ataagtctgt tatttattat taatttattg gggtgacctt cttggggact 300
 cgggggctgg tctgatggaa ctgtgtattt atttaaaact ctggtgataa aaataaagct 360
 gtctgaactg 370

<210> 417
 <211> 463
 <212> DNA
 <213> Homo sapiens

<400> 417
 acactttata tattccaaat tgatcagata tatgggtttgc aaattcatct caatctgtag 60
 cttatctttt cctcttttta aatcacaagt ttttaaattt tgaagaagtc caatatatca 120
 gatttttgtct tttatggatg tgctttcggg gcaaagtcca agaacttgtc acctagccca 180
 agatcctgaa gattttttctc ctgtggcctt tttcaaagt atctagtctt atgtatcaca 240
 ttttaagtccg ttatacattt tgagttaaag tttatataag atgtgaggtt taagtagagg 300
 ttcttttttc tcctcgccat ggggtgtctaa ttgctctagc ataatttgct agaaaggcta 360
 ttcttcctcc attgaattgc tttttcactt tttcaaaatc agctgagcat atttatatgg 420
 gtttatttct gggttctctc atctgtttcca ttgacgtatg tgt 463

<210> 418
 <211> 334
 <212> DNA
 <213> Homo sapiens

<400> 418
 ttagcatttg cttttatttt tttactttga tgccttttca aattggcatg tctttaaagt 60
 atttttcttc ctgattaaaa atgtgtgtgt atgtgtgtgt gtgtgtgtat atatatattt 120
 ttttaaataca cattaatttt accaagtga accaagccat actgtttttg agccaattaa 180
 gaaaattgcc atttttaaag tgtagcattt cagggtaaag acccatgaaa tggcttgatg 240
 tattctagac tactgaaaga aaaccacttc aaagattttg ttgaaagttt tagtggtgtc 300
 tgaaatgcaa gagggaaggt gattggtagt gagt 334

<210> 419
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 419
 acttctttga ccaaggaata ccacagacac cctaccgata gaacagtggc tcagatctta 60
 cttgtctctg cttacgaagt attcccaatc actggtcac tgacctact tgaacaactc 120
 tgaacagtca tgttttttaa aatcttctct tatatcaagt cagagagtat acttctataa 180
 atttcaactc tggatgttag gaaatctagt catcttccct gtgattgccc tgtaagtat 240
 ttaaccatag ctatcatgtg tttcccaaat cttctctaga ttaaatatct tcagtta 297

<210> 420
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 420
 acgagaggaa ccgcagggttc agacatttgg tgtatgtcct atcaatagga gctgtatttg 60
 ccacatagag aggettcatt cactgatttc ccctattctc aggetacacc ctagacacaaa 120
 cctacgcaa aatccatttc gctatcatat tcatcggtt aaatctaact ttcttccac 180
 aacactttct cggtctatcc ggaatgcccc gacgttactc ggactacccc gatacatata 240
 ccacatgaaa tctctatca tctgtaggct cattcatttc tctaacagca gtaataattaa 300
 taattttcat gatttgagaa gccttcgctt cgaagcgaaa agtcctaata gtagaagaac 360
 cctocataaa cctggagtga ctatatggat gccccccacc ctaccacaca ttcgaaga 418

<210> 421
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 421
 acgcctggac ccctgtgact tgcagcctat ctttgatgac atgctccact ttctaaatcc 60
 tgaggagctg cgggtgattg aagagattcc ccaggctgag gacaaactag accggctatt 120
 cgaaattatt ggagtcaaga gccaggaagc cagccagacc ctctggact ctgtttatag 180
 ccactcttct gacctgctgt agaacatagg gatactgcat tctggaaatt actcaattta 240
 gtggcagggt gggttttttaa ttttcttctg tttctgattt ttgttgtttg ggggtgtgtg 300
 gtgt 304

<210> 422
 <211> 578
 <212> DNA
 <213> Homo sapiens

<400> 422
 actgtgcagg cagattcaca ggggtgggtg aaagcatcca caatggctct ggcagcatca 60
 ggatcacact tgaaggggct ctgagacaaa gttgtattca tgcaactgat tccttttcca 120
 ttctgtttct tagtcaactaa tgcttttcaa tggatcatgag tgcttttaaat aatatcaatg 180
 gcaaagtctt tctcttttaa ttctgcatta aacgcaaact catcttcttg ttttccatca 240
 ggaaccttat accttctaaa ccagtccaca gtagcttcta agtagccagg tttcagccgt 300
 ttgacatcat tgatatcatt ataattggct gcatcaggat catccacatt aatggcaatg 360
 actttccagt cgggtttcccc ttctgtcaatc atagccaata tgcctagaac tttcaattat 420
 ttattttcacc tcttgacat accttgcttc caatttcaca cacatcaatt gggtcattgt 480
 caccacaaca gccagtatgt ttatcattgt gccctgggtc ttcccaagtc tgaggggatgg 540
 caccatagtt ccagatatat ccttttatag ggaacaaa 578

<210> 423
 <211> 327
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 309, 312
 <223> n = A,T,C or G

<400> 423

```

acagtatatt tttagaaact cttttttcta ctaaaacaaa cacagtttac tttagagaga 60
ctgcaataga atcaaaattht gaaactgaaa tctttgttta aaagggttaa gttgaggcaa 120
gaggaaagcc ctttctctct cttataaaaa ggcacaacct cattggggag ctaagctagg 180
tcattgtcat ggtgaagaag agaagcatcg tttttatatt taggaaattht taaaagatga 240
tggaagcac atthtagcttg gtctgaggca ggttctgttg gggcagtgtt aatggaaagg 300
gctcactgnt gntactacta gaaaaat                                     327

```

<210> 424

<211> 384

<212> DNA

<213> Homo sapiens

<400> 424

```

acgaaaaata aatctcctta aaaactaaat aaaatgcact gtattcttac agttaatgtt 60
tataactata gtaaaaaattht aatataatct ctattacata aatgttattht cttagggtgtt 120
ccattaagaa gagcaataga ataatgctaa aaaataatgc ctataaatct tcagagtata 180
aagacatcca ttcagaaaca aaaattagca ctaaaattht tataaaatag accagatgac 240
aaaatthtatt ttatthttta acagtggtht tgacacaaat tatgttattht aaaagcatta 300
ttaatgttht atthttthta aatthttgga tttgccattht ctcagagaaat gatcaggcct 360
taggaaatta atacagtagt agta                                     384

```

<210> 425

<211> 255

<212> DNA

<213> Homo sapiens

<400> 425

```

actatcaggc tttgtgctga tttcctgaac aaactgcatt atattatgaa aacaaaagga 60
aaagaagaaa taataaaaaac tatactccca tatttcactt acagtgttht agttcctgga 120
aggacctata taatggaggc agcattcaaa caagaaatta tgccaatcaa ctgtcaaatt 180
ttcactataa ttttcttaaa aaggcgtht tcccccaata tctattaatc tcaaagaaac 240
ataagttgtg aatgt                                     255

```

<210> 426

<211> 196

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 8, 10, 11

<223> n = A,T,C or G

<400> 426

```

acatgaantn nccaggccca cacagccaga cagcaacaga accaagacct agggctcttc 60
actcctgtta catcacacca tggcaatgat tttacattct ccaactgatt caaatcatat 120
ggcagctagg gatttggggg ctccatgttht tatttcaatt gcaagttcaa gatttcttht 180
tatctthtgtg ggctga                                     196

```

<210> 427

<211> 163

<212> DNA

<213> Homo sapiens

```

<400> 427
acagaagatc catggaggca agtgctgtca ggaaggacac tgcctccctc caccctccca 60
aatgtcacca ccaagttcct tcaggtgaga cctcacacaa tgtcaagtgc tttctaggaa 120
atactaagat caggttgaga gattctgctt ggtctagtca atc 163

```

```

<210> 428
<211> 315
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 10
<223> n = A,T,C or G

```

```

<400> 428
nactgagtan agatgctggg gaatgtgcaa tatgccttga agaattgcag cagggagata 60
ctatagcacg actgccttgt ctatgcatat atcataaagg ctgcatagat gaatggtttg 120
aagtaaatag atcttgcctt gagcaccctt cagattaagc gtcagcttcc tgttttatag 180
gttttcttgt cttgacaaga tgcttgaaaa accaagagga tatgaaaatc tgtctctgga 240
gaaacaaaga cgcaggcata ctgagccaga aatctgagtt ttgtgagact tggtaataca 300
gagatggaca atcgt 315

```

```

<210> 429
<211> 131
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 10, 42
<223> n = A,T,C or G

```

```

<400> 429
acagttaggn actagaacat ttgttaagcc tcccaaagta gngtgcattg aagattctag 60
agtgtccagc tcttgcacta caaatgtaat aataacagaa taaatacact taccctgatg 120
atattgaggg t 131

```

```

<210> 430
<211> 503
<212> DNA
<213> Homo sapiens

```

```

<400> 430
actgattttt aataaaagaa ataaggttca aagtttagca caacaacaca gcaataagaa 60
gctgacaact tggataaaaa tacaagaaag taacacagag cccaggctac ccattattta 120
ctgtgtgcat acaggaatgc tatacttcag atgtataaat tagagactga ttttaagtta 180
ttaatttaac tactttttgt ccactgtgct aaactaaatt ttataactaat gtgctactgc 240
gtaaacactt caaagcaatc ttcattaaaa tgctgcaaag aaaaacaaga atacacatca 300
tccaaaacta aggatgtcat tgcagttcac agtttgata ataaataccc tccctttcaa 360
tcactactaa gatcactaca tcctatctac tcatcagcac aaccttgaag caacttatac 420
ttacaaatat tagcaatgca gccaaacatt tgttttttgc aaagcaacta gtaaaaaatca 480
agaattttta ttaagacggg gca 503

```


<210> 431
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 431
 acaagtgtgg cctcatcaag cctgcccag ccaactactt tgcgtttaaa atctgcagtg 60
 gggcgcccaa cgtcgtgggc cctactatgt gctttgaaga ccgcatgac atgagtcctg 120
 tgaaaaacaa tgtgggcaga ggccataaca tcgccctggt gaatggaacc acgggagctg 180
 tgctgggaca gaaggcattt gacatgt 207

<210> 432
 <211> 485
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37, 43, 56, 59, 435, 438, 453
 <223> n = A,T,C or G

<400> 432
 aaaaaaagta atggaaaaat gggtgcaggt ttaatcncaa aangaactta attttngtng 60
 attttgtttt atctgctaaa acactaatat ctataaatat gaactgacag catcgttcta 120
 aatttacttc tgaagagctg tcgagacttc aataaaatat aagcaagtta ctggatcata 180
 tttatggact gctgaattaa ctacccgaaa agtatcagtt actttcaaag aacacaaaac 240
 aaagtgaacg tggaaaaaag ccttccttgc aaaagtcctt ttattagtcc tatcctctaa 300
 aattccaagc cacagagcct tgatattcct ggattctggt ttaagtaacc ttagttttaa 360
 atatgacact tgggatatgc acaatgggaa agggtaggat atgtgaacaa aatttaattt 420
 cttttttcca aaggnagnca ttttcttta atncatccta tccacttttg cccacttccc 480
 catgt 485

<210> 433
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 433
 actgtcacta caatattaca ttctgcaa atgtattctgt tgtatcagat acaaaaattt 60
 agtgagggat ctctaaggca catagtagaa aacaaaattg gtttaattact caagttcctt 120
 tcaactgtgat ttggaaatga tttaatcttt atagaatgag aacctttttt ggactagctt 180
 ttttattaaa atggctcaat ttgtgttgat aaggattgca ttaatatatta atagtgtctg 240
 cttttcctct gggcacacca ttttgatcat taaccagagt 280

<210> 434
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 434
 ctttgctgcg catcagggtgc ttttaagcttc ggaacaactg tgcaggattc tatttttagta 60
 ttctggaagc atcattgagg aagtagtcca gtgaagttag ctctaaaaaa actctttact 120
 ctaacaatta aaagaaatat gccaaaggat ccataaggga tgaataaatt attaaactat 180

taagaagttg ctataaatat gcagtgttaa ttcaataatt cataacggac tggt 234

<210> 435

<211> 330

<212> DNA

<213> Homo sapiens

<400> 435

```
acctcccgtg tcaccagttc ccacagaagc actgcaaaac tccacatgtc tgetgagcgt 60
ctgttttgtgt cttcaggctt cttctgcaga gtttcggggg ctaccaggc aggtgcatac 120
atgcgaccag gacattggaa agagaacttg acatcagcca tgctaattcg ggcagtcattg 180
tcctcatcaa tcattacact acggctattg agtgcatgtc gtgggatgag gggctctagt 240
gtgtgttagga aagccatgcc ccttgccatg tccaaagcaa acttcacagc ctggctctgg 300
tccacgacga aattggtgcc ttcattgtagt 330
```

<210> 436

<211> 311

<212> DNA

<213> Homo sapiens

<400> 436

```
acaactttac aatggaattg tatttcaatg attattttga tatcagatta aaccttccaa 60
aaagttacac ataattcagg tctatttttt ctaccagtaa gagttctgct aaattacaaa 120
accccataat cacagtgttc agttttttaa aaattaaaca cacagtaatc ctgtcaatgt 180
taatcaaaat caaaacttcg gaatgccgtg gcatttatgt gaccaatctg agtttttagat 240
acaaatacca gctgtttatc ccatgaacca tttttcctag gctgaggctg tgaaaaaatcg 300
aaagtcggcg t 311
```

<210> 437

<211> 355

<212> DNA

<213> Homo sapiens

<400> 437

```
actagtggat gggggtcagg gtgtcactcc aaggccctct acagaccag agaagaggaa 60
agtcaaaaaa gccagatatg agactgctga agtgggtgta agaaatatag gcaaggtaaa 120
gggaacaaga tctgggctcc ctctacttg tgtccctcac tggacctcag acaccctacc 180
tctaagactg gttcttagaa ggctgaacag taaggagcat tccaatagct tctgaaactc 240
ccaaggctgt ttcaagtagt cgaaagccat ccctggactg ttcagggtgcc ttttctattt 300
cccacctgag ctctctgccc tttcttttag cctcacaggt ttccagaatt acagt 355
```

<210> 438

<211> 431

<212> DNA

<213> Homo sapiens

<400> 438

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acagtaactt taactttaca tagagctgag ataaaaataa agctttctta caaattacat 60
tttttttcca gtgaattact tttgcagtaa aaatagctgc tacataaatc cctcctgac 120
tctgaaaagg agttgcata tccaaaaaat aatattctta ttttaatcac acagaagaac 180
gtggagcaca ggaaggaaat ggctgggtgg tcagagagag gtgagctgtc ggagaaacac 240
agttaaacta aaaaataaaa tccattttgt gtataaactg acttaaacgc atgcaaagaa 300
gtggaaaaca tatgccattt gtcaagaaaa atactgcttt atagctttta ctttacaatt 360
aaaggagaaa gcagaggcca gatataagcc cagataataa catttaagtt tctcataaaa 420
```

ctcccaaatg t

431

<210> 439

<211> 170

<212> DNA

<213> Homo sapiens

<400> 439

```
actgtcataa aaaacagtgg agctctgtat tagaaagccc ctcagaactg ggaaggccag 60
gtaactctag ttacacagaa actgtgacta aagtctatga aactgattac aacagactgt 120
aagaatcaaa gtcaactgac atctatgcta catattatta tatagtttgt 170
```

<210> 440

<211> 400

<212> DNA

<213> Homo sapiens

<400> 440

```
acgtaaaaag aacatccttc ccattcttcaa ggtcaagatt gaacgctgac tcttgcagga 60
agtcttccag gattcccagg caggaatgat ggctccctgt ccctgtagct ccaggagtgc 120
ttgcttcacg cagcctcac ataccagact gaatgttggc aggaggagt accagggtcg 180
tcattctgtg ccctaccacc tacaacaggc cagcaatcta cccgtgtgtg tttgttggac 240
agaattaacc atgatgggag gccgagggcg cctggagcta tttgggggct tggagagAAC 300
ctcttaggag agtgtcaggc tctaggccag tgtcaccaga ggaggtcagt ctcagtcctt 360
ggagtgggtg gatggaaacc agacgggact ggcattgttc 400
```

<210> 441

<211> 204

<212> DNA

<213> Homo sapiens

<400> 441

```
acctagttag ttcttaagat cagggtgtata aaactgtgga gtggagcggg atgggtatgga 60
atgacttggg atgtaagctg tcagggagaa aatgttggtt cacttttgct aagatctggg 120
ggtttcttca tatttctgct gttggaagca gttgaccaga aatgcttgcc agtactgcca 180
aagcactgct gtgaaatgtg aagt 204
```

<210> 442

<211> 649

<212> DNA

<213> Homo sapiens

<400> 442

```
acatttaatt ttttacaaca ttttctccct agagatatata tttagatatt cctatcttca 60
aagtaaaaaa caaaatagga aataagcata gaaacagcct attggcagtg gttacacctg 120
catgggtatt atgagtctcc aaactatttg aaatttattt caaccaagggt tctcttaagt 180
cttcattact tgggtgtaac tcgagagaaa actaatttat atcaatttac agtttagtgg 240
tcattgatcag gggaaagtga tactcttcca ctgactacaa gtcattgcag aggcagttaa 300
gaacttttcc tttattccta atatacagga caaaccttgc cgacatctca ctacctcaaa 360
aatcaaatat aaatgaagta tccaggagta gcctaaagaa tgagtgtaat ctggatggat 420
tttagtctaa atttatgctt tgctcttcag taaagtatag taactccaga tatatgttcc 480
acagatgcaa taatttctgt tccttggtcg gtgcagaata taatttatac ttcctgaaat 540
caactttgtc tattcatgaa aatagctgct ttttatttgc ctttgtctca ctttgaatat 600
atatgatcca caggttacag acttttccaa taactacatt tcaacttgt 649
```

<210> 443
 <211> 346
 <212> DNA
 <213> Homo sapiens

<400> 443
 acgtgggatt gaaatgcaca tacatgtttt tgctaagagc acatacattt cattctctctc 60
 actttgtttca taacctcagc attgtcagat aacctcagtg agttaactca aagcctttta 120
 ttatggaaag aactggcaca gttacatttg ccagtggcaa catccttaaa aattaataac 180
 tgatgggtca cggacagatt tttagacctg ttctttttc ttttagagca aaaagaactt 240
 ttacctcggc atccagccca acccctaaag actgacaata tccttcaagc tcctttgaaa 300
 gcaccctaaa cagccatttc cattttaata gttggatgcg gattgt 346

<210> 444
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 444
 accaattttcc ttttacagta aaggggcttt tcctgttgct tgttgaaccg gttcccagct 60
 gccattacc accaagccca aaagagtaaa ttctgcctga tgaaggaaca aaagcagaag 120
 tgtgctgccc tccacaagca atctcagtga caatgcttcc cataagttca aaaactttcc 180
 ttgggtttat ttcatgactg gtagaattat ggcccaactg accataccct ccagctccaa 240
 aagtaaacac tccaccttcc ttggtttagag cagcagtatg atcttctcca caacaaatat 300
 aaactatttt ctgagatctt agtgacttta gtaaattagg aacataccta tcattttcat 360
 cattaagacc tagctgacca aacttggtgc gtcccatcc aaagatagct ccagaaaggg 420
 tgagt 425

<210> 445
 <211> 210
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 445
 nactgtccca atataaaaca gtaattatth gacctttgca ctgtttgtct ggctcttttc 60
 agtttgattg catataaatg tggaacttga tagatctcta tatttttaat gcacttgtga 120
 taaactggca gcagggttag acattacttt caaagcttga ggtagaccga gtcagcatgc 180
 tagacaggct tctctctcta accaaaactg 210

<210> 446
 <211> 326
 <212> DNA
 <213> Homo sapiens

<400> 446
 tcgaaagacc cctgtaaaag agcccaacag tgaaaatgta gatatcagca gtggaggagg 60
 cgtgacaggc tggaagagca aatgctgctg agcattctcc tgttccatca gttgccatcc 120
 actacccogt tttctcttct tgctgcaaaa taaaccactc tgcccatttt taactctaaa 180

<210> 450
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 450
 acatggttta atacaacaac aaaaaaattt aatcaagtga aacgtaataa actgaacaat 60
 aaacactcaa aacattttcc attggaaaca tgtaaagaca atatgagggt ttgttaccat 120
 cttactgcaa ttttcttatg tgttactagt ctacataccc catgttttct gtaatcatgc 180
 agatgtgaat ggaagtttga atgattaaat aaatgaaaag tccgtttact gcagggaatc 240
 atttcacaag gcagccaaac cgggtttaga gaacaaaact attcaagaaa ttctcc 296

<210> 451
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 6, 20, 198
 <223> n = A,T,C or G

<400> 451
 acatgntcca aggcacgcgn ctgtgaactt cctctgagtg aaggcatccc ctccagcacc 60
 tttcagcctg ctagtttagga cgaccgcgcg ccacctcca ggacctccag cctgtcactg 120
 cctttcctct cttttaaata attcttcatt gagttctaata atgtaaaaaa aaagtttact 180
 gttaaagtttg caaataanga aatttttttt aaaagtcctc agtaatctta ccagtaacaa 240
 ttgttatggg cacatttgct tttggaagat ttcttttgta tgcattgggat aagt 294

<210> 452
 <211> 129
 <212> DNA
 <213> Homo sapiens

<400> 452
 acttttagat cacaaatttg cctttaagta acacataata cacttaaggc agatttgcct 60
 tacaggtggc ctacagttct aaacaccact acactgcttt atataaaaaa caaaaatcac 120
 atagaagag 129

<210> 453
 <211> 151
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9, 10, 44, 46, 47, 150
 <223> n = A,T,C or G

<400> 453
 actctcaann tgtatttagg tgccaacaca tttaggatca ttgngnnttc tcagtgaatt 60
 gaccttttta tgagaataaa atgtctatct ctgaaatgtc cctatttctg gaaatgttcc 120
 ttataactaaa gtccaacttg tgtggattan t 151

<210> 454
 <211> 119
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9
 <223> n = A,T,C or G

<400> 454
 tgctgatgna gcatgctttt taaatccttt aaaaacactc accatataaa cttgcatttg 60
 agcttggtgtg ttcttttggt aatgtgtaga gttctccttt ctcgaaattg ccagtgtgt 119

<210> 455
 <211> 515
 <212> DNA
 <213> Homo sapiens

<400> 455
 accttataaa gttccttttc atccttctct gtcttcaact gacattcaag ttgttctctt 60
 tcatgttggtg ccttcttgag ttgggccttt aaactgtcta attcggtttc tttttcaatt 120
 gctttatgtg ttactgacac aatatcttcc tcaagctgat gggctttgga tgtagcatca 180
 ctgaacctct tcttaaaact ttcattttcc atttttaagc tttgtgttac ttcagtaaga 240
 cccttttggt ctgcttgacg ttggtcacat ctttctttct catgggtaag ttctctttcc 300
 atttctccaa cttgttctcg aagttgtgct gtttcttttt ccagaacggc aattaacttt 360
 aacagttctt ctttttcttt catgggtttc tcaattttca actcaagaag gcctgctttt 420
 gtggtcacca ctaacatgtc agaatttcc tcatcttcca tagtaagcag ctcttcaact 480
 ggagaagaag ctcgaaactg gaaaggtgta cctgc 515

<210> 456
 <211> 350
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 310, 326
 <223> n = A,T,C or G

<400> 456
 actccctcc ccaaataga acctcaaaga ctgatccatt tcccctaggg cctgggccag 60
 gagtagctca ctgctcactg ctgaggagaa aggcacaaga tataatgtca taagagcagg 120
 acagtggctc agcctacaga gttccctata ggggaaagaa ggcaggaaat aggcgcaggg 180
 tctggtcctg tccctgcacc accctgagca gctagtcttg ggaagggtt acaggccctg 240
 ggccataggc tgctcgccat tctgctttcc tatcctgttt ctctccctgt gctgctccct 300
 tttagccagn gctgagaaat gttcancacc tgaggcaaaa ctgccatagt 350

<210> 457
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 457

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gcagggccaa cagtcacagc agccctgacc agagcattcc tggagctcaa gctcctctac 60
aaagaggtgg acagagaaga cagcagagac catgggaccc cctcagccc ctccctgcag 120
attgcatgtc ccctggaagg aggtcctgct cacagcctca cttctaacct tctggaaccc 180
acccaccact gccaaagctca ctattgaatc cacgccattc aatgtcgcag aggggaagga 240
ggttcttcta ctgcgccaca acctgcccc a gaatcgtatt ggttacagct ggt 293
```

```
<210> 458
<211> 500
<212> DNA
<213> Homo sapiens
```

```
<400> 458
actagactcc agattaccct ttcttaataa atatctcagg gtaaggaaag aaagaaactg 60
tatagatata tttaaaatag agaatacttt ccaagcaata catgatgcct ttcttaaaag 120
actctaaaag aaaaagattc tgtaactctc ttttagcacc aaattattgt ttatcttgct 180
ggatatttta tatgaacagt gttaatttag atgcactaaa gcaaaggtag gcaaaactaca 240
accatgagtc aaacatggcc acaccattc atttgcattt gtctaagctg gttttgcact 300
acaactgcag agttgaatag atgcagcaga tcctttacag aaaaagtttt ctgacctcaa 360
ttctaaagta attgtagtag ggagctggag gactttcttt ccctttatgg taattttttg 420
agctacaaaa agagccttgc agaaatgggt gaagggatta atctttttaa aataaatgct 480
atatattagg aaaataaaaa 500
```

```
<210> 459
<211> 394
<212> DNA
<213> Homo sapiens
```

```
<400> 459
ggtgaaaaga cttgattttt tgaaaggatt gtttatcaaa cacaattcta atctcttctc 60
ttatgtattt ttgtgcacta ggcgagttg tgtagcagtt gagtaatgct ggtagctgt 120
taagggtggc tggtgcagtg cagagtgcct ggctgtttcc tgttttctcc cgattgctcc 180
tgtgtaaaaga tgccttgctg tgcagaaaca aatggctgtc cagtttatta aaatgcctga 240
caactgcact tccagtcacc cgggccttgc atataaataa cggagcatac agtgagcaca 300
tctagctgat gataaataca cctttttttc cctcttcccc ctaaaaatgg taaatctgat 360
catacttaca tgtatgaact taacatggaa aatg 394
```

```
<210> 460
<211> 279
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 4
<223> n = A,T,C or G
```

```
<400> 460
actnccgatt gaagccccc a ttcgtataat aattacatca caagacgtct tgcaactcatg 60
agctgtcccc acattaggct taaaaacaga tgcaattccc ggacgtctaa accaaaccac 120
tttcaccgct acacgaccgg ggggtatacta cggtaaatgc tctgaaatct gtggagcaaa 180
ccacagtttc atgccatcg tcctagaatt aattccccta aaaatctttg aaatagggcc 240
cgtatttacc ctatagcacc ccctctagag caaaaaaaaa 279
```

```
<210> 461
```


<211> 278
 <212> DNA
 <213> Homo sapiens

<400> 461
 tttggacact aggaaaaaac cttgtagaga gagtaaaaaa ttttaacaccc atagtaggcc 60
 taaaagcagc caccaattaa gaaagcggtc aagctcaaca cccactacct aaaaaatccc 120
 aaacatataa ctgaactcct cacacccaat tggaccaatc tatcacccca tagaagaact 180
 aatgttagta taaagtaaca tgaaaacatt ctccctccgca taagcctgcg tcagattaaa 240
 aactggact gacaattaac agccaatatc tacaatca 278

<210> 462
 <211> 556
 <212> DNA
 <213> Homo sapiens

<400> 462
 aacgtccaag ggggccacat cgatgatggg caggcgggag gtcttggtgg ttttgtattc 60
 aatcactgtc ttgcccagc ctccggtgtg actcgtgcag ccatcgacag tgacgctgta 120
 ggtgaagcgg ctgttgccct cggcgcggtat ctcgatctcg ttggagccct ggaggagcag 180
 ggcctttcttg aggttgccag tctgctggtc catgtaggcc acgctgttct tgcagtggta 240
 ggtgatgttc tgggaggcct cgggtggacat caggcgcagg aaggtcagct ggatggccac 300
 atcggcaggg tcggagccct ggccgccata ctcgaaactgg aatccatcgg tcatgctctc 360
 gccgaaccog acatgcctct tgtccttggg gttcttctg atgtaccagt tcttctgggc 420
 cacactgggc tgagtgggtt acacgcaggt ctaccagtc tccatgttgc agaagacttt 480
 gatggcatcc aggttgccag cttggttggg gtcaatccag taactctccac tcttccagtc 540
 agagtggcac atcttg 556

<210> 463
 <211> 659
 <212> DNA
 <213> Homo sapiens

<400> 463
 cacactgtgc ctttccagtt gctggcccgg taaaaaggcc tgaacctcac cgaggatacc 60
 tacaagcccc ggattttacac ctgcccacc tggagtgcct ttgtgacaga cagttcctgg 120
 agtgcacgga agtcacaact ggtctatcag tccagacggg ggcctttggt caaatattct 180
 tctgattact tccaagcccc ctctgactac agatactacc cctaccagtc cttccagact 240
 ccacaacacc ccagcttccct cttccaggac aagagggtgt cctggtccct ggtctacctc 300
 cccaccatcc agagctgtct gaactacggc ttctcctgct cctcggacga gctccctgtc 360
 ctgggcctca ccaagtctgg cggtcagat cgcaccattg cctacgaaaa caaagccctg 420
 atgctctgcg aagggtctct cgtggcagac gtcaccgatt tcgagggctg gaaggctgcg 480
 attcccagtg ccttggacac caacagctcg aagagcacct cctccttccc ctgccgggca 540
 gggcacttca acggcttccg caccggtcatc cgcccttctt acctgaccaa ctccctcaggt 600
 gtggactaga cggcgtggcc caagggtggt gagaaccgga gaaccccagg acgcccctca 659

<210> 464
 <211> 695
 <212> DNA
 <213> Homo sapiens

<400> 464
 accttcattt gaccccatca gcttcagggc cttcttttaca tttccactgg cctgatccat 60
 gtatgcaatg ctatttttgc agtgatatgt gatgttcttg gaagctcggc tggagagaag 120

```

tcgaaggaat gccagctgca catcaaggac atcttcagga agttcaggat tgccgtagct 180
aaactgaaaa ccaccatcca tggactctcc aaaccaaacg tgtttcttct cagcactaga 240
atctgtccac cagtgtttcc gtggaacatt caaaggattg gcacttatgc atgtttcccc 300
agtttccata ttacagaata ccttgatagc atccaatttg catccttggt taggggtcaac 360
ccagtattct ccaactcttga gttcaggatg gcagaatttc aggtctctgc agtttctagc 420
gggggttttta cgagaacat caggactaat gaggttttct atttggtccat taacagactt 480
gagtgaagtc ataatctcat cgggtgttgat ttgaaatcc attggttcat ctccataata 540
cggggcaaaa ccgccagctt tttcacctcc aatcccagca atggcagcgg ctccaacacc 600
accacagcaa ggaccagggg caccaggagg tccaggaggg cctggttgcc ctgggtggcc 660
tggggagccc tcagatcctc tttcacctct gttac 695

```

<210> 465

<211> 73

<212> DNA

<213> Homo sapiens

<400> 465

```

cagggtccaga gctcccaggt ttccagggtg cagtccctcc agtcccagag ctcccagggg 60
ttcgggtttcc agt 73

```

<210> 466

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 15, 453

<223> n = A,T,C or G

<400> 466

```

agcactggca gaggnagcca aatatagtga tgtgcgccag agataagtat tctcctctcc 60
aagcatattg ctatacaaga ctttaaagac ttcataaaag ccaaacttgc agagtccctg 120
catggagtag ccaaggaaag tcggagccca tcttttagcc aaaccacgaa caccatcctc 180
tttaagtgtg actgagaatc cgttaaatat gcccttgtag ttttgggggt ccacctgcat 240
acggcatttc actaaatcca ggggaaccac agcagtgtgt gtcagaccac aacttaagac 300
cccaccaaag ccacacagtg cataatactt cgcgagacca aattcacaac tgtactcttc 360
cacggcggcg gctgccaggt tgcgagggcg gcggggctgg cccgtgggcc ctggggagct 420
gctgcggagg tccccgagac catcgtgcac canctgcaga tgtggcgtgt tgaagggggt 480
cgcccgcgcc aggtgcgcc cggacga 507

```

<210> 467

<211> 183

<212> DNA

<213> Homo sapiens

<400> 467

```

cctcatgagc taccgggcca gctctgtact gaggtcacc gtctttgtag gggcctacac 60
cttctgagga gcaggagga gccaccctcc ctgcagctac cctagctgag gagcctgttg 120
tgaggggcag aatgagaaag gcaataaagg gagaaagaaa aaaaaaaaaa aaaagggcgg 180
ccg 183

```

<210> 468

<211> 129

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 29, 81, 84, 90, 108, 110, 123, 128
<223> n = A,T,C or G

<400> 468
gcggccgcgt cgaccggcgc cgtcggggcnc cgggccgggc catggagctg tggacgtgtc 60
tggccgcggc gctgctgttg ntgntgctgn tgggtgcagtt gagccgcncn gccgagttct 120
acnccaang 129

<210> 469
<211> 243
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15
<223> n = A,T,C or G

<400> 469
gcggccgcgt cgacnngcca tggagactgt ggcacagtag actgtagtgt gaggctcgcg 60
ggggcagtg ccattggaggc cgtgctgaac gagctgggtg ctgtggagga cctgctgaag 120
tttgaaaaga aatttcagtc tgagaaggca gcaggctcgg tgtccaagag cagcagttt 180
gagtacgcct ggtgcctggt gcggagcaag tacaatgatg acatccgtaa aggcacgtg 240
ctg 243

<210> 470
<211> 452
<212> DNA
<213> Homo sapiens

<400> 470
cctcaagtac gtccggcctg gtggtgggtt cgagcccaac ttcattgctct tcgagaagtg 60
cgaggtgaac ggtgcggggg cgcaccctct ctgcgccttc ctgcgggagg ccctgccagc 120
tcccagcgac gacgccaccg cgcttatgac cgaccccaag ctcatcacct ggtctccggt 180
gtgtcgcaac gatgttgctt ggaactttga gaagttcctg gtggggccctg acggtgtgcc 240
cctacgcagg tacagccgcc gcttccagac cattgacatc gagcctgaca tcgaagccct 300
gctgtctcaa gggtcagct gtgcctaggg cgcacctcct accccggctg cttggcagtt 360
gcagtgtgc tgtctcgggg gggttttcat ctatgagggt gtttcctcta aacctacgag 420
ggaggaacac ctgatcttac agaaaatacc ac 452

<210> 471
<211> 168
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 18, 37
<223> n = A,T,C or G

<210> 480
 <211> 65
 <212> DNA
 <213> Homo sapiens

<400> 480
 cccccagtgg aaggctccca ccctggtaga tgaacagccc ctggagaact acctggatat 60
 ggagt 65

<210> 481
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 481
 cacagcgtgc tctgcgggggt cactcccaact ttgttagtga tgtgggttatc tcttcagatg 60
 gccagtttgc cctctcaggc tcttgggatg gaacctgcg cctctgggat ctcacaacgg 120
 gcaccaccac gaggcgattt gtgggccata ccaaggatgt gctgagtgtg gccttctctc 180
 ctgacaaccg gcagattgtc tctggat 207

<210> 482
 <211> 319
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 252, 258, 268
 <223> n = A,T,C or G

<400> 482
 cacactgtgc ccttcagtt gctggcccgg taaaaaggcc tgaacctcac cgaggatacc 60
 tacaagcccc ggatttacac ctgcccacc tggagtgcct ttgtgacaga cagttcctgg 120
 agtgcacgga agtcacaact ggtctatcag tccagacggg ggccttttgt caaatattct 180
 tctgattact tccaagcccc ctctgactac agatactacc cctaccagtg cttccaaact 240
 gcacaacacc cnagcttntc cttccagnac aagagggtgt cctggtccct ggcctacctc 300
 cccaccatcc agagctgct 319

<210> 483
 <211> 233
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 212
 <223> n = A,T,C or G

<400> 483
 acaggcccag tggcgccctag ccttcagctg ctgggctctc ccgagcctgc cttagcccat 60
 acaaccactt gatcacgcgg gcattgcgct ccaccaccga cacgccatag ggaacgcgct 120
 cccgggcccg ctctcaaca gtcaccgagc tgcggcgga gcagccccct tcagagctgc 180
 ccggcccagc actgggccct gccagggaca cnatatccga gctggcccgt gcc 233

<210> 484
 <211> 194
 <212> DNA
 <213> Homo sapiens

<400> 484
 agagcccttg ctggggggtg cctgggagat ggggtaagaa gagctttcat ttgtctggta 60
 gatagatagc atgtaagggg gtggttgtcc caggaggcag ctgctgacag gtttgctaca 120
 cacagccccg gactgtgttg cctgggtgct cattcagaga ggggctatca tctgggagcc 180
 tgtgccccctg ggtc 194

<210> 485
 <211> 67
 <212> DNA
 <213> Homo sapiens

<400> 485
 tocatatcca ggtagttctc caggggctgt tcacttacca ggggtgggagc ctcccactgg 60
 gggaagt 67

<210> 486
 <211> 70
 <212> DNA
 <213> Homo sapiens

<400> 486
 taccgagtca accttcgcac acggcgagtg gacactgtgg accctcccta cccacgctcc 60
 atcgctcagt 70

<210> 487
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 487
 actcccgatt gaagccccca ttctgtataat aattacatca caagacgtct tgcactcatg 60
 agctgtcccc acattaggct taaaaacaga tgcaattccc ggacgtctaa accaaaccac 120
 tttcaccgct acaagaccgg gggatatacta cggatcaatgc tctgaaatct gtggagcaaa 180
 ccacagtttc atgcccacg tcctagaatt aattccccta aaaatctttg aaatagggcc 240
 cgtattttacc ctatagt 257

<210> 488
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 488
 actctgctat ggtgctggct tccttttaaac tcaggataga tgccagggtg gctccgtttc 60
 cgtaagactg aactcgagc toggcatcag accagttcct cagcttcctg aagtaaccat 120
 agcaattgga cttgtggtaa aaccatccag gagcacagct gggctctcatg atgatatac 180
 ccaggactcc tgttttggcc aggcagctca gcaataggag cagccgcatg cttctggaag 240
 ccatcttcct cctaccctga ggatgtagct agtgcaagga tctcagagac cttactagcg 300
 cttctttgaa actcctgggt tctccttgat ctgcaaatct gtytggaac caagactcta 360

agggccccctg ccttcttc

378

<210> 489

<211> 429

<212> DNA

<213> Homo sapiens

<400> 489

```
ccgaggtaca cagaagtttg aatcacaaaa cataattacc acaataaaac acagtgttca 60
agtatcttgg cagagcaatc tgccgcacaa actgcaaatt aaattaacta cacagactaa 120
aaactataca gcttaccatc aacagttgtg cattataaaa aggtagtttc tttccttttg 180
ttttaagtca ggaacaggta gattttttaa aatatatata caagctaaca cacacrgcta 240
tcagcactaa tgccccccc tcaacttttc ctttttctta tagaaaatgg aaagcttaca 300
atacctcttc srtymwrgmr scagrcctwc gagccwgcct grasagggk wgcmtgggar 360
magmtstgkc ctgaggttta gagccgcttt gtgcggggat ggtggaggct aggggtgggg 420
tgagaaaag
```

<210> 490

<211> 532

<212> DNA

<213> Homo sapiens

<400> 490

```
ttggattgcc acacgggtca cattgcatgc aagtttgctg agctgaagga aaagattgat 60
cgccgttctg gtaaaaagct ggaagatggc cctaaattct tgaagtctgg tgatgctgcc 120
attgttgata tggttcctgg caagcccatg tgtgttgaga gcttctcaga ctatccacct 180
ttgggtcgct ttgmkgktgtg atatgagaca gacagytcg gtgggtgtca tcaaagcagt 240
ggacaagaag gctgctggag cgggcaaggt caccaagtct gccagaaag ctcaagaaggc 300
taaatagaata ttatccctaa tacctgccac cccactctta atcagtgggtg gaagaacgggt 360
ctcagaactg tttgtttcaa ttggccattt aagtttagta gtaaaagact ggtaaatgat 420
aacaatgcat cgtaaaacct tcagaaggaa aggagaatgt tttgtggacc actttgggtt 480
tcttttttgc gtgtggcagt tttaagttat tagtttttaa aatcagtacc tc 532
```

<210> 491

<211> 567

<212> DNA

<213> Homo sapiens

<400> 491

```
tcgaggtaca aaagcccttc aaaaggagtt cagcttttat aaacacaaaa acactctctg 60
cctgtaaaaat gtttttgctg aaatttgtat cattaactct caaatttaca tcttcatgtt 120
tgagatacgc ttttaggact gtctatgcat gtagactttg gtcaactctc tcctcctccc 180
tcaataaaatc agttaactta aaaaatatat tgtgaccatt tttataaaat acatgttcat 240
aaaacagatc aacatattta gcttatacag aaataaaaatt aagtcaatcc actcacaaaag 300
aattttctatt ttgtaaaaat gtagcttgta tttcagtata ataaaatctg atgcaaaaaa 360
cctgcccggg cggcaagtgt gctggaattc tgcakatac catcacactg gcggscgctc 420
gagcatgcat ctagaggggc caattsgccc tatagcggcg cattaagcgc ggcgggkggtg 480
gtggwtacgc gcasygtgac cgmtacactt gccarcgccc tagmgcmcgc tcctttcgcw 540
ttcttccctt cctytctcgc cacgttc
```

<210> 492

<211> 422

<212> DNA

<213> Homo sapiens


```

<400> 492
agtgtgctgg aattcgccct tggccgcccg ggcaggtaca agactcaata atcacctgac 60
tgagctccaa ttaactgagg agaaacgggg tggaggagag ggctgggtgc tattcagact 120
tgataatgag attgatctgt cccatggaga gtgaaagtgc agttccactt ctgcctcctt 180
ctttccatgc tgtcctcatg ctctttatcc tcacttcctc agtcccttca aactcaaaa 240
tctgatttta tttctctctc acacgtatca ggggcagttt ctgaagttgc tgaggttgaa 300
ttttcttcac aaacctctat aaaacatcag cagagaacat ataaatacat tttgattagc 360
atacattgca aaatttctcc cacaatgtca ggggatgaaa gcaggtgggc cccactgaga 420
gt 422

```

```

<210> 493
<211> 318
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 283, 311
<223> n = A,T,C or G

```

```

<400> 493
agtgtgctgg aattcgccct tagcggccgc cctggcaggt aagctttttt tttttttttt 60
tttttttgat gattaacatc ttttaattcaa atgkaaaagt tcaatacaag ccattttatag 120
ggcttgagat ttgttggtct tttaaaaaca araaatgggg aaatgcaaca aaatgacott 180
tccacttttc aaaagctttc aagtaaagga tagatcatag ggccataaaa gatccattta 240
atsaaaccca cttttyaccc cctaccaatt gtcttacacc cantccacaa tottaataca 300
tattcctgaa natttaca 318

```

```

<210> 494
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<400> 494
accttttact acaacaagta aacatgcata ataaagtagg attcatccaa tgtctgacct 60
ttctttgcat caaaagaaca tttccggcca ggcacggtgg ctacgcctg taatcccagc 120
actttgggag gccgagccag gtggatcacg aggtcaggag atcgagacca gcctggctaa 180
catggtgaaa cctgtctct actaaaaata caaaaatgag ccgggcatgg tgggggggga 240
ccgtagtccc agctacttga gaggctgaga caggagaatg gcgtgaaccc gggggggcga 300
gcttgtagtg agccgagatc gcgccactgc actccagcct gggtgacaga gtgagactcc 360

```

```

<210> 495
<211> 329
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 269
<223> n = A,T,C or G

```

```

<400> 495

```

```

gaggtctggg atggggcttc actgctgtga ctctctcctg ccaggggatt tggggctttc 60
ttgaaagaca gtccaagccc tggataatgc tttactttct gtgttgaagc actgtttggtt 120
gtttggtttag tgactgatgt aaaacgggtt tcttgtgggg aggttacaga ggctgacttc 180
agagtggact tgtgtttttt ctttttaaag aggcaagggt gggctgggtc tcacagctgt 240
aatcccagca ctttgagggt ggctgggant tcaagaccag cctggccaac atgtcagaac 300
tactaaaaat aaagaaatca gccatgaaa 329

```

```

<210> 496
<211> 292
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 166
<223> n = A,T,C or G

```

```

<400> 496
acctgggatg aggtgggtgg agctttgaat ctaccactat ccaggccaca cacctagaag 60
ctctggtttc attgtttcat tgatttcatt gttttgattg atgctgacct taggcagcag 120
agttttcaat gctctccagg tgtttctaaa gtgcagacaa gtttangacc gtgcttgagg 180
gtgaagggca ggactgtgat ggggaggggc aaatatgggg cccttggggg gcaggcaatg 240
gttttccttg acctgaatgg ggggtctcac ggtgttgcac atacatatac gt 292

```

```

<210> 497
<211> 549
<212> DNA
<213> Homo sapiens

```

```

<400> 497
tcgaggtaac gaccatagag caagaatcaa gattctgcta actcctgcac agccccgtcc 60
tcttcctttc tgctagcctg gctaaatctg ctcatattt cagaggggaa gcctagcaaa 120
ctaagagtga taagggccct actacactgg cttttttagg cttagagaca gaaactttag 180
cattggccca gtagtggtct ctactcttaa atgtttgcc cgccatccct ttccacagta 240
tgcttcttcc ctctctccct gtctctggct gtctcgagca gtctagaaga gtgcatctcc 300
agcctatgaa acagctgggt ctttggccat aagaagtaaa gatttgaaga cagaaggaag 360
aaactcagga gtaagcttct agcccccttc agcttctaca cccttcggcc ctctctccat 420
tgctgcacc ccaccccagc cactcaactc ctgcttgttt ttcctttggc catgggaagg 480
tttaccagta gaatccttgc taggttgatg tgggccatac attcctttaa taaaccattg 540
tgtacctgc 549

```

```

<210> 498
<211> 412
<212> DNA
<213> Homo sapiens

```

```

<400> 498
cttgaagctg ggaggtggag gttgcagtga gccgagatca caccactgta ctccagcctg 60
ggcaagagaa tgaaactctg tctcaaaaac aaaaataaaa acaaaaaaaa aactcttgct 120
attctggaaa tgtccacaat tcagtcttca cctgcctcca tcctcatgaa ggcaccaggg 180
gagcgcggtg ggctcacctg atttcttggg taggtctgtt ctgttccttt tttatgcggg 240
gtctgtcggt gggcactgct ccaatgtgag gggctccaggc tccatcgtag cctcttaacc 300
agctcagtgc caggaagggg ggactttgac aaaaaccac ctcaaactct cactccocaa 360
cctggagtgc aaactgtggc aagctcccta ggctctctgg gcctcagctt cc 412

```

<210> 499
 <211> 447
 <212> DNA
 <213> Homo sapiens

<400> 499
 actttttaaga atatactttg atttaatatg tatgttagta aaactccacg tgttgtaacc 60
 attattatgt ttttgttttt aaaatgggga tgtaatacta ataaccacta cctataaaat 120
 aaagcacaca attgttccgg cgattttaca aatctttttt tccagggtga aagtctacaa 180
 aaattccaaa aaattagaga aactgaaaa catattaaag tttgacatcc aactttatag 240
 tatttccatg ttaccctgaa agataactta aaaaatatgg cttctttaga acaggccact 300
 ctgctattat aaaaaattgg tgacagcaag aaattgtatc actgatatgt ggaatttttg 360
 taaatagttt tctctccaaa tcattagaaa aatgttcaaa aataaaaaa aaataaaata 420
 tgggtggtggt ccctaaacta ttttgaa 447

<210> 500
 <211> 527
 <212> DNA
 <213> Homo sapiens

<400> 500
 gtttgcttct tgcactctgat taactagaat atttctcttt ccccttttta atttgtgatg 60
 tcacttgacc ccatttatgt gtaggagcac tacaccattg gtttccaata ctgcacacat 120
 aagatacata cttgtgtgca gaaagtatct tcctccaggc ttgtaatacc cttcacatgg 180
 aagattaatg agggaaatct ttatattctg tataaaaaa aaagcaaatt tatatactaa 240
 aatcatttgt ctaaaaaatt aagttgtttt caaataaaaa ttaaaatgca tttctgatat 300
 gcaactgattg tgttgctctc agcttttttt gctctctatg agtgactact taagtcactt 360
 gttgagaggg attatttact aattatatac ttctcattcc tgtaactcca ttccctttaa 420
 acagtgggtga tatcaaatat acttccatcc attgaatggg gtatttttta caacaacaaa 480
 agtgatatac taaaaaatgt attgcttaag gcttattgaa tcatttt 527

<210> 501
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 501
 gaggttgccg accaaagaga ccattgagca ggagaagcgg agtgaaattt cctaagatcc 60
 tggaggattt cctacccccg tcctcttcga gaccccagtc gtgatgtgga ggaagagcca 120
 cctgcaagat ggacacgagc cacaagctgc actgtgaacc tgggcactcc gcgccgatgc 180
 caccggcctg tgggtctctg aagggaaccc cccccaatcg gactgccaaa ttctccggtt 240
 tgccccggga tattatagaa aattatttgt atgaataatg aaaataaaac acacctcgtg 300
 gcaa 304

<210> 502
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 502
 actgattgtc atcctgactt tggcattggc agctcttata ttccgacgaa tatatctggc 60
 aaacgaatac atatttgact ttgagttata atatggtttt gtgacttatg agctgtgact 120
 caactgcttc attaaacatt ctgcattggg tataatctaa gaattgttta caaaaagatt 180

<213> Homo sapiens

<220>

<221> misc_feature

<222> 246

<223> n = A,T,C or G

<400> 510

```

accaacttta tatcatatgt ttatacaatt taattttaaaa attcatttta aggaagacag 60
ataatttgaa agacttttgt ttttcttgac ttaattcatg aagtatcatt ttttgactga 120
gtctccattt acttcattct taatgattat tgcatccct ttaaactctgt gcctttttct 180
tcttgagcga agctgtttga gtaaaccctg tgaagagtgt ttgtgtcttt tgtgcttttt 240
tgttgntatt aaaacaccaa ctaaacccta tagtcaagac aaggctctat gtttctgt 298

```

<210> 511

<211> 345

<212> DNA

<213> Homo sapiens

<400> 511

```

acagattttt gtatagctga taagattctc tgtagagaaa atacttttaa aaaatgcagg 60
ttgtagcttt ttgatgggct actcatacag ttagatttta cagcttctga tgttgaatgt 120
tctaaatat ttaatgggtt ttttaatttc ttgtgtatgg tagcacagca aacttgtagg 180
aattagtatc aatagtaaat tttgggtttt ttaggatgtt gcatttcggt tttttaaaaa 240
aaattttgta ataaaattat gtatattatt tctattgtct ttgtcttaat atgctaagtt 300
aattttcact ttaaaaaagc catttgaaga cctaaaaaaa aaaaaa 345

```

<210> 512

<211> 459

<212> DNA

<213> Homo sapiens

<400> 512

```

acttatttca acaattctta gagatgctag ctagtgttga agctaaaaat agctttatnt 60
atgctgaatt gtgatttttt tatgccaaaa tttttttagt tctaatacatt gatgatagct 120
tggaataaaa taattatgcc atggcatttg acagttcatt attcctataa gaattaaatt 180
gagtttagag agaatggtgg tgttgagctg attattaaca gttactgaaa tcaaataatt 240
atttgttaca ttattccatt tgtattttag gtttcccttt acattctttt tatatgcatt 300
ctgacattac atatttttta agactatgga aataatttaa agatttaagc tctgggtggat 360
gattatctgc taagtaagtc tgaaaatgta atattttgat aataactgtaa tatacctgtc 420
acacaaatgc ttttctaatt ttttaacctt gagtattgc 459

```

<210> 513

<211> 422

<212> DNA

<213> Homo sapiens

<400> 513

```

gccccgtagt gatgagcact gactgggttca ctggccacat tttagttctt cataataata 60
ggccacaaaa gggctctgtg gtttgectcc atgtgcaactg gcccctcccc acccctaggg 120
ggcactcagt agctgctgag aaggcctgtc cacgaggctg ttggaacccc tccaataaat 180
acttagaggt agtgtatctg atgcttggtt tcgtggagaa aattgtattg gagaacttaa 240
aacatcacga atatttttaa taggatccgc agacacccaa aggagaagct tgggtctttc 300
caggtatttc caacttgagt tcagcccaaa gcctttgaaa ggaatgcatt accacatgac 360

```

cacatgctga gaccccatgg ggtctaacac gggacctaag aaagtctctg cagccagata 420
gt 422

<210> 514
<211> 326
<212> DNA
<213> Homo sapiens

<400> 514
accagtatag taatatctgt atactaacta gggctttgta ttgtcaataa ttttttaata 60
atTTTTtaat gaggtattta ccactgaaga aatatgataa tataaaacca tcaaatttta 120
taattgagat gatactctgg aaaaacatgt catttcattt tcagaaaact ctttaagctct 180
cttcagtctc tgtaatgttt ctgattgcat gtttcttcat gaaaagtatg ttgttgtttt 240
gatagtaata ataataaatg taggctcagt tctttcccag gattttcattc aaaaagcttt 300
aagtgcctaa ccctgcttgt ctctgt 326

<210> 515
<211> 323
<212> DNA
<213> Homo sapiens

<400> 515
accagatgta gctaggaaaa cccaaacgtt ccttggatcc tgagacagct ggtaagcacc 60
caggccggct agactgccaa agagcagccc tgcagccagg gacggcacgc tgccctgcttt 120
tacatagcca atgatccac cagaagcaac cagtgtgcg tagccaaagc caaaccaatg 180
caagggcact actgagccag tgtcctgcat tttctcttc tctgtccaga caggagacta 240
ccccaggcct gcaccggctc cacgaaggcc ccggtgtct acaagggcgc gcaagccgca 300
ggaatgactg cgaggtgtcg ccg 323

<210> 516
<211> 403
<212> DNA
<213> Homo sapiens

<400> 516
accccgttgg ggttcatttc ctgcccaaga agctggatga ggcagtggct gaagcccacc 60
tgggcaagct gaatgtgaag ttgaccaagc taactgagaa gcaagcccag tacttctaaa 120
tactgagtga atacatcaca gattgcataa agtgcattgt tgcaagttgt tgtcatccat 180
tcagctttct ctgtctgttg ttctggcaat ttcattattgt caaagattct gaaaacaatt 240
ctaaataaat cctgccacca gtgtttctca taagtgtggc catatgtttt cattatttca 300
aacattactg ttaaaccctt ggttcttaca tctaatttgc atctattgat gatacaggat 360
aactcaaaga gaattgggaa ccattctctc acccacacc tgt 403

<210> 517
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 335
<223> n = A,T,C or G

<400> 517

```

acotgaacga agtcgcgggc aagcatggcg tgggccgtat tgacatcgtg gagaaccgct 60
tcattggaat gaagtccga ggtatctacg agaccccagc aggcaccatc ctttaccatg 120
ctcattttaga catcgaggcc ttcaccatgg accgggaagt gcacaaaatc maacaaggcc 180
tgggcttgaa atttgctgag ctggtgtata ccggcttctg gcacagccct gagtgtgaat 240
ttgtccgcca ctacatcgcc aagtcccagg agcgagtgga agggaaagtg catgtgtccg 300
tcctcagggg ccaggtgtac ctgmccgggc ggcnctaac ggcgaattmt gcagatatcc 360

```

```

<210> 518
<211> 255
<212> DNA
<213> Homo sapiens

```

```

<400> 518
cataaatatt atactagcat ttaccatctc acttctagga atactagtat atcgctcaca 60
cctcatatcc tccctactat gcctagaagg aataatacta tcgctgttca ttatagctac 120
tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccataactagt 180
ctttgcgcgc tgcgaagcag cgggtggcct agccactacta gtctcaatct ccaacacata 240
tggcctagac tacgt 255

```

```

<210> 519
<211> 449
<212> DNA
<213> Homo sapiens

```

```

<400> 519
accttccctct caatttttgc gtgaacctga aatggcttta aattaatact cttatTTTTT 60
atttaatttta attacataaa ttaaacctta ccatgaccaa attgtgttag gacggcctgc 120
tatctacagc acagtgtgtc atttgcagat ttgtggttac ctataccacg ctagggtgtt 180
tgacatgttt agtatttctg ctttacagtg ctgaattcca tatttttagaa gctatgaaag 240
tccttttatg aaaaagttac tgattgcttc tcagttatta ggaaaacagt tgtttcacaa 300
ttattatgta gatatgatgc ccaaatatca tttttagtat atcttgtcga tctttaagtt 360
gttactattg tgttattcat gtctttaaat cagataccaa atatTTTTTA ggaaagaaaa 420
atgttattac tgtcattagg ttggctttt 449

```

```

<210> 520
<211> 92
<212> DNA
<213> Homo sapiens

```

```

<400> 520
acccccatca cagcagtcga acagcctgag aaagtggcag ctaccaggca ggagatcttc 60
caggagcagt yggcaryagg gccagagatc cg 92

```

```

<210> 521
<211> 123
<212> DNA
<213> Homo sapiens

```

```

<400> 521
acagagggga caacaatgaa tcagaacaga tgctgagcca taggtctaaa taggatcctg 60
gaggctgcct gctgtgctgg gaggtatagg ggtcctgggg gcaggccagg gcagttgaca 120
ggt 123

```


<210> 522
 <211> 303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 277, 284
 <223> n = A,T,C or G

<400> 522
 acaaaaaaat gaatgtttaca aaaatcacgt aaaaaaaaact aggctcaagg aagcagccgc 60
 ccttgcaaga gggctcaagg cacctgagag gctgagaaga ggccaacctg gccatgggcg 120
 tggctgcatg gacagctctt ccctcctgcc cttccccaga tgcccttccc tectgccccg 180
 aggggcacac tccctctccc caattacagg tgctacaaaa ctgccttgaa taccacogcc 240
 aaggcactgc cagagatgaa atgggccttg agcagangcc tcangctctc cctcccccg 300
 agc 303

<210> 523
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 523
 acagtgcatt gtgctgtcac ttggaaagcc tttcaatgtt gtcttcagat tgttgatgat 60
 aatatgaaac atgcagaccc tcctttataa agaaaaagac cttaaaaactt gaatatgaga 120
 taatttttaca ttttaaaagt ttatttgatt ttcattattat tcactttcaa agccctttca 180
 aatagaaaag gtatgaactt ttgggggggat aatttatgta tcgtaaaactt attagaacaa 240
 aatattcctg atgtataatg agttgtttta tttatacaac tttttcaatg gtagtttgca 300
 ctattcttta ttatgttaca ggtttattta ttatgaaaca aagggaatatg tattttatgt 360
 attttaccat gcataggtta actctttgcc acagatttat tggctctgat acacctaaaa 420
 taaa 424

<210> 524
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 524
 acaatttcat tgcagacaca aagacttaag agtttcaaag aattttttta aataaaaaaa 60
 aaatttgcac ttattcctca caaaatcttc acttttgaa ctatcccaat tgaagctaca 120
 cactgaattt attaatacag cattaagttt ctttgtgtaa aaaaatcttt gt 172

<210> 525
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 525
 actccttccc agttttttct ttatactgag ctttcaggga cagtaagcat totacagctt 60
 catttatttt agccttaggg gatttttcag cttttagctt acgaaccacc tccccttggt 120
 cagcaacttc atcatacaga gattttactt ccagaatact tgctgaggaa ttagaagaaa 180
 tattctgtcc tatttcagca ggagggtttc cagggtttata ttcttgcca gttttctcct 240
 tatattcaag ctttca 256

<210> 526
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 526
 actggagatg tatttgataa ccaagggtttt aggtaaattt tcaccagtat tagttctatt 60
 tgcaaactga aaaatgttgt aggccttaata taaaataacc acattagtga acattatatac 120
 tcttagaaga aaggccatat tttgctcctg cttctgtaaa aatattattt gtttgaagg 180
 gaaataaatgg tagtgtgacc tttcacttaa ttctactcc cttaatgtga gagagacaaa 240
 atgagctgaa gaaggaaaat tctggagtta cactccacaa ccttgaacat actgacggac 300
 atctctgttt tgacaacgat ttctccatgc caccatgct ctaatgcctt gtggatcacg 360
 gacaacctc tttgcacaag ctacagcatc agcgatgtta tcttgcagca aagcactgca 420
 ggataaatga caggcattaa ctgctcctgg ggttttgcc aatttacacc agtagcggc 479

<210> 527
 <211> 220
 <212> DNA
 <213> Homo sapiens

<400> 527
 accaaattga agggttttaga ggccctcaaa tgggcatcac tcataaaggc aattttcatg 60
 gtttaatatata gaaattactc taatgtgaga acacaacatg ggaactattc aaaatacacc 120
 tttctatgca aaattgagtt tgyatctatt ttagcatttt aaatgagcac tctgcaactg 180
 agaccaaata tcaatcatct cttgagggtt tctactatgt 220

<210> 528
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 528
 acamcatcga tgaaattcag acatacaatg taaagttgaa ataatcccaa attattttac 60
 attatttatg tatactttac aaataacaca aatatggaaa tgttttcttg gaaagctgtt 120
 ggaactgtaa gcaactgcaac gtatgaaaga aacatattta gcaataaaaa atttaataat 180
 atcctacaac tgaattagtt gcatatttat accattcaaa atcttgattt taacctcatt 240
 cactcctttg aaaaatacat tcctcttttg ttcttttaaa tgcaaaaatta gtggcagttg 300
 cagcaaaaac gccgaaattc tataagaaaa aaactgattt accccaaaca tatcattcag 360
 cacaaactgc ggt 373

<210> 529
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 529
 acattttctaa gtcaaact tgtgactttt gctttaattc catgaatgtt cctgcctcct 60
 tgatatttgt atttattctt tttttctcta gagtagaggt ataatttgtt gatatttcag 120
 aaatacagat aaatgattca aaaagtcaca gttaaggaga atcatgtttc tttgatcatg 180
 aataactgat tagtaagtct tgcctatatt ttctgatag catatgacaa atgtttctaa 240
 ggtaacaaga tgagaacaga taaagattgt gtggtgtttt ggatttgag agaaatattt 300
 taatttttaa atgcagttac aaattataat gtattcatat ttgt 344

<400> 533
gaggtactta ataaccaagt ctcggaacac tgagccatca cctgcaatgt ttcctagagc 60
ccagacagct tgttctactga tgtgagcatg gggagatgcc aacagagaaa tgaatgctgg 120
gatggcacct ccactctacca cagccttggg ttgttctgat gtcccagaag caatgttagt 180
gagtgcctaa gcagattcaa actgaatggg actacaatca gttctgcccc agaaggacac 240
aaatttcgga atcaaaccag cccggattat gttgtctatg gggggctggt tttctctgga 300
aagtagtttc ctggcagctt gagtagcttg gagctgattt tccacattgc tgctatttat 360
gcctttgaca atgtcatcaa cagaccaatt tacagtgcc tggttgttgc ggttttcctg 420
cagcggagaa gtagcatcat caggaaatga gcttacattt ctcctcttca gcactctggtc 480
atccttctta gctttcctca gctccacatt gacctctatt ctgcgacgc 529

<210> 534
<211> 297
<212> DNA
<213> Homo sapiens

<400> 534
actcattaat attattttgt tttgagaaa cagaaaatga ttctaagaaa taaacaataa 60
taataaaaga tgtaattaat atactgtatc ccttttaagc caaagcacac tttttacctc 120
aagactgttc tgacttttac attcttaatt tcctttgtcc aaaataggac cccattttta 180
atagagtcca tttgaattga gttcataatc taaagtcact tttccccaca agatgttttc 240
atttcagtat ataaactgct aagcggcaaa tgactaagtc agttataaag aatttgt 297

<210> 535
<211> 373
<212> DNA
<213> Homo sapiens

<400> 535
actttccagg gcacagcctg gacgaatgat gccaaacttt ccgggcacag acaaatcaac 60
cacagttgag ccaaggcgac actcggggct ctggccatcc ccaatttgct ccccatcaat 120
aaccaaggac aactgaggcc agagatcctg gaactcctcg acattcagag aactggcctg 180
ggagctgagg ttggcactag tgagagcaag cggacctca aacatctgag ccaagtcttg 240
cataaaagca tgatcaggaa tccgaatgcc tacaagaggc gtaaaagggt ttaggtcctt 300
gttgagctcc tccgagcgtt ccaccaccag ggtcactggt cctggcagta ggtctttcag 360
gagccctca ggt 373

<210> 536
<211> 254
<212> DNA
<213> Homo sapiens

<400> 536
acatgctcca ttaaattaaa tgtcatccaa catttatcaa atattgtctt agttacagct 60
tgatacctat ctaaattcat attcgagcaa aactaggccc cgaaagtgcg tttgtggctc 120
tgacacctca gaagtgagtt caaaaaacct gcagctcatc agaactgcaa caataactct 180
taatattttt ttgtgacaaa aaaaaaaatc aagtttactt caatatattt tcaaatattt 240
actggaagta atgt 254

<210> 537
<211> 449
<212> DNA
<213> Homo sapiens

<400> 537

```

acagacttgt ttttgagtgt tgagtagcag ggacaaaata agggaatgtt attttttaag 60
aaaattcatt ttcatgtgtg tctccttcct tttctgtgaa agtcctcata ctgagaaatt 120
tgtatatttt atattaaatc acttactatt gatttttgtt gtgattttca aagggtggatt 180
cccacagata aaatcttggc tattgcccaa aacatagtaa agggtcacgt gtgacttttt 240
ataataggaa gaaaattctg cctttgtgag tgcacatgtc cacatttcat ccctccttcc 300
ctcaaaaccc tagagagggg cattaaagaa ttgttgatgt atatgcaatg tctgttaagc 360
atgcactatg tatttcaccc tcatttattg ggtctgggac tgaagttttt agccagcatg 420
gacctaacct actttttggg ataaaatcc 449

```

<210> 538

<211> 328

<212> DNA

<213> Homo sapiens

<400> 538

```

actcagcgcc agcatcgccc cacttgattt tggagggatc tcgctcctgg aagatgggtga 60
tgggattttcc attgatgaca agcttcccggt tctcagcctt gacggtgccca tgggaatttgc 120
catgggtgga atcatattgg aacatgtaaa ccatgtagtt gaggtcaatg aaggggtcat 180
tgatggcaac aatatccact ttaccagagt taaaagcagc cctggtgacc aggcgcccga 240
tacgacaaa tccgttgact ccgaccttca ccttcccat ggtgtctgag cgatgtggct 300
oggctggcga cgcaaaagaa gatgcggc 328

```

<210> 539

<211> 506

<212> DNA

<213> Homo sapiens

<400> 539

```

tcgaggtact ttggcctctc tgggatagaa gttattcagc aggcacacaa cagaggcagt 60
tccagatttc aactgctcat cagatggcgg gaagatgaag acagatggtg cagccacagt 120
tcttttgatg tccaccttgg tcccctggcc gaacgtccag cggagagact gttggcagta 180
ataaatggca aaatcatcag gctgcaggct gctgatggtg agagtgaatt ctgtcccaga 240
tccactgccg ctgaaccttg atgggacccc actatgtaaa gtagacgcct tatagatcag 300
gagattaggg gctttccctg gcttctgctg ataccaggcc aaccaattat taatattctg 360
actggcccg caagtgatgg tgactctgtc tcctacagat gcagacaggg tgggaaggaga 420
ttgggtcatc tggatgtcac atttggcacc tgggagccag agcaagcagg agccccagga 480
gctgagcggg gacctcatg tccatg 506

```

<210> 540

<211> 519

<212> DNA

<213> Homo sapiens

<400> 540

```

tcgaggtacc tttccttgtt tcctagaatt cctaaggagg aacaacaaca aaatcgggggt 60
ttgttcagca attgcaccac atctctaaaa attaaaacat tattcagtaa gtgaagggtt 120
ctgataaaca agtggatcaa actgaatatt tccaattaag aaagttcaca ataatacagt 180
agtgtattat taccaatagg aaggcctaatt agtcgactat tattttttta ggcaagaaaa 240
aagaaaacaa gtgcaagcta tgccaagctt tgggtgaatgc tgtccttggc attgcaagta 300
taaagtttgt ttaaaaagaa aagggaaaaa ttaaaactaat gcttcaacaa ccacagaata 360
aggttttagga ctgcaaagaa agaggaaaaa aagaaacatt attcctctcc aattatactg 420
ccaagcattc acaagtgagc tagggatcat aagggttaatt atacatttaa taaggtgtca 480
gggagataac tgctcatttc tttataaaaa ttaaaatgt 519

```

<210> 541
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 541
 acttgaggct tttttgtttt aattgagaaa agactttgca attttttttt aggatgagcc 60
 tctcctagac ttgacctaga atattacata ttctccagt aagtaatact gaagagcaaa 120
 agagaggcag gattgggggtc acagccgctt cttcagcatg gaccaagtgg gccttgggga 180
 ttgcagcggt ctggaagtgg ctgtaggact cgaatttaca gaaagccaca gaggtgcaac 240
 ttgaggctct gctagcaagc caccagtgg gctattgggt aaccaccttt ctatacagga 300
 gattggaatc tactttgtca tttatccacc acagtgacaa aggaaaagtg gtgccgttat 360
 gcaatccatt taactcataa acatattact ctgagtaact ggccagccat tcatcggtac 420
 cttcattggg t 431

<210> 542
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 542
 acaaaaaagg aaataagaaa gtagtgacag cctatccata caaaaaatcaa aaagacacaa 60
 aggaagatag aatgagaaac agacctacaa gaatcattaa acaataaaat aacagtaatc 120
 tttgtcttca gaaaataaat attttaaaaa tagacttgcc aatcaatata catacattga 180
 atagagggat tatataaaat tttatatacc aagatccaac ttgcctctct tcaagagtca 240
 cttgagatct agtagtgaaa tcagcctgaa agtggcaagt ggaagaagac attttaggca 300
 aacatcaacc aaacgagagc agaagagatc aaaattgtat tatacaaaat acatcgtaag 360
 tcaacaactc tcttatttta taaaatatac tttatgtcaa aattcacaag agaaaaaagg 420
 tcattaaaca ataataaaga tatcatttat tgaaaatgta tgacaaatat gtgcatacat 480
 atatttatat gtttgtgtct gt 502

<210> 543
 <211> 452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 403
 <223> n = A,T,C or G

<400> 543
 actacaaggc cagtaaaaca atgatacact ggaaaaaaaa aaatgcagca ataaacattt 60
 gttaaaaaga ctgatagaat aaataaaact acaaaaaaaaa aaaaatcata caaacccatt 120
 ctgaaacccc aagaagtcct ggaatacaga aatgccctcc tccttacta tttcacagga 180
 agcactgcag gctatttgc taaattgtgc ctgggattac attctaaaa tagtaactgg 240
 ttacagctcg gttgtagtgc acaattaaaa tcacactaac ttcatctgaa gtgtcattct 300
 acagttttat ttacacaacc agtgaagggc atgttctaga ataccagctt taatcctttt 360
 caaacattaa tataagaagc caaattgtaa tgatacagca aantgaggcc actggtatta 420
 atacaggtag caaagggtcca catccagggt gt 452

<210> 544
 <211> 472

<212> DNA
<213> Homo sapiens

<400> 544
caatcattta taatagaaac accttgacca caagccottg attgaacatt ttataatatt 60
tcactacttt attaaaacaa ataatttccc ttgggttga ggggaggtga tttcataaat 120
taattagaaa gccatcttta gcatattgct tatgtctgga tccatgtttc tgaggaaaaa 180
gacattctca ggtgatgtat ttttttcatg cattagtatg catTTTTTaa aaataatgca 240
tgtttcttta ataattaatt ttcactcttct ataagatgcc atgtgaagaa gttgtggaaa 300
tgtagaataa aaagctaaag ctgccaaatt tctgttgaaac tcttaaaaac agctcatgtt 360
tgtttgtcct ctcggttctg ggcctagcct atttgcaatg taatgaagct gcagggttct 420
tgtatagcta aagcgttcaa tgcatttcac gtgctgtggt ggatgtgggt gc 472

<210> 545
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 180
<223> n = A,T,C or G

<400> 545
acttaagcat ttccactttt ggaagaaaag tgtattagta ttttatattg catttcattt 60
aaaaggacag tttttttttt ttttgtaaatt ccattcattg aaatggtttc taaactgtat 120
aatgtaattt ggagcctatt tagtaatatg aattaaatgt cctatgtagt gctacaattt 180
tygaattaga aagtgatcaa atgtmasaaa aaaattyaaa aattcagccc agaaaacaaa 240
atagggtatt aaattagttt aatgtaaaag gaattwataa g 281

<210> 546
<211> 423
<212> DNA
<213> Homo sapiens

<400> 546
tcgagggtact gagacagaag atttgtgtcta cataagcaca agttgtgaaca tttcacaact 60
tctaaaagga atgtcaacaa ttacaacgat catgcatacc atgggtcgata atcacatttt 120
agaagcattt tcaaccattt ctaaagaaat gcttataaca ttgttatata tagaactact 180
ttcaataaac tgcaaaacat tgatcgactt ttccagtatg agctacagtg tcaacacaaa 240
agggaggcat aaatgtttta tttatgaaat cagaatggaa tattttactgt aaagaaaaat 300
taaaaagctt tcaaataaag gccattatcg aaccaacgtg aagagcaca ctcgaacttt 360
tgagttcatt catcttttaa agctgtcctc tcaataactt cagttctaag cactgaattc 420
agt 423

<210> 547
<211> 399
<212> DNA
<213> Homo sapiens

<400> 547
gagggtctttt agcagggtctc aaaagttttc ttctaataara ywtcttggtg ttctatcatt 60
cgtaggtgtt gaatttacca aactttttct atttcaatta ttacattttt actttgttca 120
agtaatatgt tatcatatta aatgaacatt gcattgtgaa aataccctgc ttagtcatgg 180

```
tatgtaatca tccttataacc tttttgtatt ctttttttaa atatttctga gaatttctgt 240
gtctaaatth aaataggatg ttgttttgta atcatcttgt gattcttttg tctcctttgg 300
gtattattgg ccaatagatg aattaagaaa tgttacctct tctactgott gaagtttttg 360
tgagaaattg atgtttttca ttaagtgttg atgaaatgt 399
```

```
<210> 548
<211> 246
<212> DNA
<213> Homo sapiens
```

```
<400> 548
aaatgcatta taaatgthtt taattgtgtt ctgttttttg cagtctttta gtgccatgcc 60
aattgttctt atattctata gaagttcgct caaaatactc aacaggggaa taggcagcgg 120
acagtcagaa tgggttggat tttggctttc taagaaaaac tttattttgc ataagcatgt 180
ggtcagatca ttttgtgcat atgcagcctg gattggatgt taagtaaatg cttgttcagt 240
gccgggt 246
```

```
<210> 549
<211> 413
<212> DNA
<213> Homo sapiens
```

```
<400> 549
acaaactggg attttatact gttccaatgc cagtaatcaa tttattttct tcattaaaat 60
aatatacaca gaatgtattg ttagttcgat tccttcaaat tttatacata tttactttct 120
gttaaagaga aaaggataaa atggtataaa aaaagataaa gctattaatt aagcacgaga 180
gagaagataa atggatattt tccctgtgtg aggctaagac agaagcaaat ctctgttaaga 240
aaaatgccac ccacacaaca ggaaatttat ccaaaacaaa acaaaagcag ttatagaacc 300
ccttctctac catcagaagt aatttcacag caataaactt attggttaca acagacatac 360
ttgaacagtt aaggatggga agaaaggctt aagatatcac caaattaaac cgt 413
```

```
<210> 550
<211> 215
<212> DNA
<213> Homo sapiens
```

```
<400> 550
acataagggt caaagtttcc tttccttttt ttatttattt tatattttgc aatgtttttt 60
ttccataata ttttaagtttt tcgatgttta gatatttttc ttcggtgaag cacaagtwtc 120
ttttcatggy ccctgakcaa ttttaaacag ttggaacacc ggtggcactg ataactgcty 180
tctgggcagc ctcttttagct tgggggggctb gtagg 215
```

```
<210> 551
<211> 175
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 154
<223> n = A,T,C or G
```

```
<400> 551
ggcggaggag cggtaactac cccggctgcg cacagctcgg cgctccttcc cgctccctca 60
```


cacaccggcc tcagcccgca ccggcagtas aagatggtga aagaaacaac ttactacgat 120
gttttggggg tyaaacccaa tgctactcat gaanaattga aaaaygctta tmmga 175

<210> 552
<211> 298
<212> DNA
<213> Homo sapiens

<400> 552
acagtgtata ctatccccac caaaggaaaa aaacattaag agcaaaacaa ggggtggggg 60
gtgggaatat tgctaaagaa aattctaata agagtatatc ataattatag cttttattta 120
ttatatcttc attcaatcat ttattcaciaa ttagtctaata tgcattcttg atgaataact 180
gacttcagca aaggagtcaa tccactaagc aaagttcatt tatttttcat gatgttcttc 240
tttogatctt gagtctttac tctcctggat tcccaagaga actgcattag cctctagt 298

<210> 553
<211> 437
<212> DNA
<213> Homo sapiens

<400> 553
yacaatggct taagcaaadc gctttagttt tttttctatt taagatttag gacagactac 60
tcgtctaaaa ttcactatct acagagaagg tcctagggaa caggataact tatttagggt 120
tagctctcat aatacaatat ccataatggc tttagaagaa tgtaaataaa taacattggg 180
aaacagcgta tactgatatt ttctgacaaa ctcatctatc taacatcatg ctgagcaatc 240
aagaggattc ctctatatat tttaaatttt aatttattct atttcctgat tcacaaactc 300
ttgctccatg ttaaagcagt tatcaccaat agaacctatg agaaccagtg cccatggaaa 360
ctaacagct tgttttttta atcccctatt aaaactcggg tgaacttgat atatgcatgg 420
ttgaaatatg cgtgggt 437

<210> 554
<211> 575
<212> DNA
<213> Homo sapiens

<400> 554
ycgaggtact ttgacaaca tttatctgca tgtccagatc agcaatgagt cggcaattga 60
cttctacagg aagtttggtc ttgagattat tgagacaaag aagaactact ataagaggat 120
agagcccgca gatgctcatg tgctgcagaa aaacctcaaa gtccctctctg gtcagaatgc 180
agatgtgcaa aagacagaca actgaacaaa ttacaaatga actttcttgc acttgcttgt 240
cgccaaataa aagagaggcc cattgattcc tccccacccc caacactttt cttttaaagc 300
ttttctccct ccttggttctt gtttttcttt cttcctttcc ttttctctga gagtttta 360
actttcaagg actttaaaaa aataatcatg tttgaattgt tttctcttat tttgtgagg 420
tggtttgaag gaaggacaag gtagatctgt ttagttttgc agttgaagtt agatggctc 480
aaacatttaa ttgtcaata atttcaaat taatgtcctg ctttcacatt gaagggcaga 540
gctacaaaa cattgtatat ttcaaaagac aaaaa 575

<210> 555
<211> 226
<212> DNA
<213> Homo sapiens

<400> 555
accgaaccat gaccaccctt ggcaagagcc ttcattgcacc tagcaagtag tcacagcatg 60

```

catgtgcta gaattgttac gtggtcaaata tatattattg tgtattccca ccaacagtat 120
gagaagggtcc acttctccat acctccacaa ctctgggcat ctaaaacttt taaaatcctg 180
gaatcatagg caaaaaaaaa aaaattcacc catattttcc tctagt 226

```

```

<210> 556
<211> 298
<212> DNA
<213> Homo sapiens

```

```

<400> 556
acttcatata agtggaaatca tatagtattt gtccttttct gtctggctta tttcacatat 60
aatgtcttcc aggttcatca tattgtagca catgtcagaa tttcattcct ttttaaggct 120
gaataatatt ccattatgtg tataccacat tttgtttatc cattcatcca tcaatagaca 180
tttgggtatt tccaggacaa tatattctta atttaatccc acatttttaag acttacagggt 240
aattttaaatt caattcaact tactgagtat ttactaagggt taactcacta tgggaagt 298

```

```

<210> 557
<211> 166
<212> DNA
<213> Homo sapiens

```

```

<400> 557
actaatgggc tacatccgat tcaaaaccac atagttcatt gatcacagat gcatgggtatt 60
agtcacgaaa gtttcagaa acattgtgtt gattttgaaa ggtcattttgc atcttctatg 120
atttcaactt tatctccatt taacttgctt gtaaagtatg tatgat 166

```

```

<210> 558
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 448
<223> n = A,T,C or G

```

```

<400> 558
actccctggt ttgagaaact ttcttgaaga acaccatagc atgctggttg tagttgggtgc 60
tcaccactcg gacgaggtaa ctctgtaatc cagggttaact cttaatgtta cccagcgtga 120
actcgccggg ctggcaacct ggaacaaaag tctgatcca gtatcacac ttctttttcc 180
taaacaggac ggaggtgaca ttgtagctct tgtcttcttt cagctcatag atggtggcat 240
acatcttttg cgggtctttg tcttctctga gaattgcatt cctgccagg cctaccacat 300
accacttccc ctggaattgg ttgtcctgga agttctgctg cagagggacc ttgctcagag 360
gtggggctgg gatcaggtct gaggtggagt cctgggcctg ggcattgcaga gcccccaaca 420
gggctaggcc cagccacagg agacctangg gcatgatttc a 461

```

```

<210> 559
<211> 193
<212> DNA
<213> Homo sapiens

```

```

<400> 559
accagacaga atcaggaaaa aaaaattgaa aataagcata acactataaa gaaaacttgg 60
aaaagtgaag cacttctaaa taaaaaatat acacctggcc tggcacccat tacatatata 120

```

cataatacat gttataaaca tatatacagt aaatgttttg gtagcaatac agaccatgca 180
 ttggtctttg tgt 193

<210> 560
 <211> 125
 <212> DNA
 <213> Homo sapiens

<400> 560
 acacaattat tctcactctc cacagaaagg ctgcttaact totcatctgg wggwgggaag 60
 cactaaaatc ctgattttta cagaatagta gkaaaaatgc ctcagtgatt taagttgaaa 120
 gcagt 125

<210> 561
 <211> 325
 <212> DNA
 <213> Homo sapiens

<400> 561
 ccgaggtacc acggcctcag agtcacagct ttgtgacatt agggggcaat ctccagcttt 60
 acgtttttaga agacagtttg ttttttgatg tatattttta atatccccag attaaagaaa 120
 actcagggca agtaacacac taaaagggcc tttaacaattt ttttcttgct gttattttga 180
 gatgcatctg ttgcaaaata tgtcaatgtt agaaatcaag ctccctcata tagggataga 240
 tcatttgaaa tagatttctc tcaagaataa tccaattatt actttttagt gtttgcataa 300
 attcactcca gaagtcattc acagt 325

<210> 562
 <211> 303
 <212> DNA
 <213> Homo sapiens

<400> 562
 accagatgga aatgatattt gcttcactcc attttgaatt totgcctgaa ttagctcttg 60
 tttcagttct tcaatttctt tcttcagttt agcattttca actcgaagtt tottctcttc 120
 cctcaaagtt gcttgcaaaa ttgctttctc cttaagtaga gaaacttgct gcttaagata 180
 ttcaatgatt tgatctgcct ctgcaccctt ctgctccagt ctcttcagaa cagcatcatt 240
 atttgccatt tttgccaaga gacggcagaa aatcatgaag cggaggacca cgggttccga 300
 gac 303

<210> 563
 <211> 279
 <212> DNA
 <213> Homo sapiens

<400> 563
 tcgaggtaca cagtcattga agactctccg gaattcagat ttgaaaccat atattatctt 60
 cattgcaccc ccttcacaag aaagacttcg ggcattattg gccaaagaag gcaagaatcc 120
 aaagcctgaa gagttgagag aaatcattga gaagacaaga gagatggagc agaacaatgg 180
 ccactacttt gatacgga tttgtgaattc cgatcttgat aaagcctatc aggaattgct 240
 taggttaatt aacaaacttg atactgaacc tcagtgggt 279

<210> 564
 <211> 427
 <212> DNA

<213> Homo sapiens

<400> 564

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ccgagggtact gtgtagtggt atcagtggtta aaaatggaag atcattatga agaaacaatt 60
tgtcatttgg gtatatctgt ttctatagga caaggatttg tgtctaaata ttccttactt 120
gtatctcaga ggactatctg ttaaataaatt gatcttaatg ccagcataag aaatcaaggg 180
aactatttct cagacatttc tttctctaaa ttaagtaggg tttcagggtc caagtttaca 240
ttgagagaac tatgtttacct gggagagaat gtaaattttt ctaattccca aacaaaacca 300
ctaatttcta ggaaacattt attgtttata tgcagatcct agagacttct atttcagtgc 360
ggatcaacaa cttcaaaaat atacagcctc ctattttattt acaataatat ttacatacaa 420
atgaagt                                           427
```

<210> 565

<211> 214

<212> DNA

<213> Homo sapiens

<400> 565

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tgcagggtact ggggtcttttc cagccaggcc tgcaacgggtg accttaatcc cagctcgccct 60
catgacatct acagggatga ccgtctccat ttctctgtct ccttttagcca ggatgaccag 120
agctcttttg gaagccattt ttatgtttata tgtttacaag cccacacca ggctgaaaat 180
gaacgcacgc cagcacgcac gcgcgcgcgtc cggc                                           214
```

<210> 566

<211> 382

<212> DNA

<213> Homo sapiens

<400> 566

```
ccgagggtact tttagttttt tcacataact ctctaaaggc cttttcaaaa agtctctttc 60
actggcatca tctactagaa caatttcttc tatcatgtgt cttggtgagc gattaatgac 120
actatggaca gttcgcagaa gtgtgctcca agcctcattg tggaaaacaa tcaccacact 180
tgttgtagga agattatctg gatacacctt tgttttacac ccttctaacc taacatctgg 240
taaagatctg ttgagtgcaa tcatctcact tgccattaaa ttgaactgat tgattttaaa 300
catctctttc atcttttctt gatcctcttt aggaatgacg actggtttcc ccatttctcc 360
aggaccttca tgaggctttt gt                                           382
```

<210> 567

<211> 271

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 168

<223> n = A,T,C or G

<400> 567

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cgagggtacaa ttaccacacca ctggagggtga ctcagagagg acccccagag ggtgtctcca 60
tcttccctat ttattttcag cccttgaggg cttcattgta gatcaaagcc aaggccccc 120
ggaagggtgac atactcctgg aagttcacct cctggtcctt gttccggncc aagtcttcca 180
tcagccttgc aatttcagca tcttgagctc tcgagccaat ggtgagctcc ttctggatca 240
gtccttcag ctccttcttg ctcagggtgt g                                           271
```

<210> 568
 <211> 340
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 326
 <223> n = A,T,C or G

<400> 568
 cgagggtgcag tgtatattcc tttgttgtga atccaaatct ttttcatagg taatgacaga 60
 tgccttaatg tgaagcttat ttataatagc aataaaccta actggatttg gatgaagaag 120
 tcttaatact gacatactgg atttttaatg cactggtttg ttatttggtg ttctatctct 180
 ttttcaggc ctccaggttg cacatttatt tattatgttc aatactttgg ttcttagttc 240
 ttaaagaatc aagaagttgt gtaatctttt aaaaatatta tcttgcagat aaagaaaaaa 300
 attaagagtg tgtttacaac tgtttntctt tttttacagt 340

<210> 569
 <211> 156
 <212> DNA
 <213> Homo sapiens

<400> 569
 gccaggtaaa ccaagacttg gtctcagtga agaaattcca gaggtcaccg gcaaagaagt 60
 tcccttctca tcactctcat ctacgtattt aaagatatat acagttgtac agtttgctct 120
 gatgttggca ttttatgaag agaccttgc agatac 156

<210> 570
 <211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 176
 <223> n = A,T,C or G

<400> 570
 acagtactca gtatatctga gataaactct ataatgtttt ggataaaaat aacattccaa 60
 tcactattgt atatattgtc atgtattttt taaattaaag atgtctagtt gctttttata 120
 agaccaagaa ggagaaaatc cgacaacctg gaaagaattt tggtttcact gcttgnatga 180
 tggttcccat tcatacccta taaatctcta acaaga 216

<210> 571
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 571
 tgcaggtttt gtaatccaag gttctgacta aaagcaaaaa tacacggcat agattgcaac 60
 agcaaagaag tgtccaatta aaactagagg gttaggagac aatacagaaa gcagcccaac 120
 aggaccgcca acacattcgc caccaagttt tgaaataaag aaa 163

aagttttctgg atagaggaca agaaagaata ggctatttag aaaaaaaaaag gtgtgggtccc 360
attatttttca ggcttcaccc tanatgacac atgagcaaaa gccacttcg ccatcat 417

<210> 576
<211> 245
<212> DNA
<213> Homo sapiens

<400> 576
ggaagggggg accctgccaa agatgaggct ccagctgccc tggggggagg gtggtggcca 60
ttactagagg gggcctgggt cctctcccca ggggctgcca gcatccaggc caggaagcct 120
ggagccaaga accttctggc tctgagggag caagagctgg caggcggcag ggctggcaca 180
gacagacgga agcagaaaagg acagtttggc tgctgtgtct gctgcgcacg cccctcccc 240
ggaca 245

<210> 577
<211> 418
<212> DNA
<213> Homo sapiens

<400> 577
gaaaaccctt taatgttggg ctttctttaa ataaaacaga aaggttgcag ctttcccatg 60
gtggctgtaa ggcaagaaca gcagtgaggg cgggcgtgtt ctatcgggca gtgctgcagc 120
ccttgactct ggctcaagggt gggcttcctg gaggcagcgg caaggaggca gttctggatg 180
tgcaggcaca gatgtagggg aacaggcaag cgggcacagg gccctgagct gacaagcagt 240
gacccctgca cccagctaga tggggcacc cctctctggg agctgagggc atcagctgga 300
gcctcaggct gggaccagcc ccaactttgc cttggtgact ctgggccatt ccaggcctca 360
gtttcccccac tgtaaggtga ggcattaggc aggagggggg ggccccagcc agtgtcct 418

<210> 578
<211> 363
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 153
<223> n = A,T,C or G

<400> 578
aaagcccaga aggcacttta ttggaggtct ctgcctccat tcacaggaga aaggagctgg 60
gagccccatc ctaggggtccc agcatcagcc cactggaggg cctggaacag tccagcactc 120
tgtggggagag gagtggggag gggaatgttt tanaaaaaat agatctctat gtacatctga 180
catatttata tagcacataa attagggagt gctctgaccc ctgcccgtgg agcccaagca 240
ctgagcaggg aggtgaacgc cagtccagaa agaaggtgct ggagcccctg ctctgttctc 300
tccatcacgg ggctccccta gggcctcccc aggcctcctt ggctcagtc aggtttgtct 360
gca 363

<210> 579
<211> 403
<212> DNA
<213> Homo sapiens

<400> 579

```

ggaataatca gctctttctgg cccacaagta ggaatgatca atgagaactt aacttagtcc 60
tttattttggg gatttttttca tcaaacaaaa atttcttgaa ttggggagac cacttccctg 120
taactccagt attgccccct ctcaactttag catatattaa ttagcagggtt gggctagaga 180
aatcagctgc tatgcggggtt gattattatt attatttcta atccttttcc ttatttgcct 240
tctactcccc ttaatctaatt ctaaaagctc tgttccatgc aactggagtt ccttatccct 300
ctcttccccct tcccttatat attgaggcta tggggtagga gaaaagtgc caaccacca 360
ccccctttac tcgtgcatta aaattttctta tttacccttt tcc 403

```

<210> 580

<211> 403

<212> DNA

<213> Homo sapiens

<400> 580

```

ggaataatca gctctttctgg cccacaagta ggaatgatca atgagaactt aacttagtcc 60
tttattttggg gatttttttca tcaaacaaaa atttcttgaa ttggggagac cacttccctg 120
taactccagt attgccccct ctcaactttag catatattaa ttagcagggtt gggctagaga 180
aatcagctgc tatgcggggtt gattattatt attatttcta atccttttcc ttatttgcct 240
tctactcccc ttaatctaatt ctaaaagctc tgttccatgc aactggagtt ccttatccct 300
ctcttccccct tcccttatat attgaggcta tggggtagga gaaaagtgc caaccacca 360
ccccctttac tcgtgcatta aaattttctta tttacccttt tcc 403

```

<210> 581

<211> 432

<212> DNA

<213> Homo sapiens

<400> 581

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acctgataaa agttaataat ctcttggttag gaaagctgtc cattaataag gccagtcttc 60
agcaaaacta aaaccatttt gtctgttttag ctttcttagt ctgacaacgc aatactgttg 120
aaccacagtc aaatataatg acaacattgg atggatagat cagtaccatt gggtacagct 180
gttaaacagg ttctgttcttg gcgccacata aaaacaagcc aataacatcg aataaatcat 240
ggcttttttt ttctttatca caattcactt aagtgtatgtt aattatggtc cttgtcaaac 300
acgttttgta aaggctatctt acagtgtaca tggtgagca tgcactatctt atagttacaa 360
agatacctgc cagtttatta caatagaata cacagtgtctg aaatgggtgaa ctctcccatc 420
ttaatatata tt 432

```

<210> 582

<211> 215

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 121, 131, 142, 144, 147, 156, 160, 174, 178, 184, 194, 206

<223> n = A,T,C or G

<400> 582

```

gtttatttca gctttactta aaatttttagt ttcaaatgaa atgaaatgtg aactgaagc 60
ataagaacac aactgaagac tgcaaacac ctaattcatt ttcccagggtt gcttaagcct 120
ncaagcacca ntcaaataac gnantcnatt aaaagnaggn ctttcccatt tgtngcncgc 180
ttcngaattg aacntattta aaaccntcaa tttct 215

```

<210> 583

<211> 426
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 408
 <223> n = A,T,C or G

<400> 583
 tgggcgcctg tgggactggg tgccctctggc gtgcagaagc ttctctcttg gtgtgcctag 60
 attgatcggg ataaggctca ctctcccgc ccccaaagtg gttgatcggt ggaacgagaa 120
 aagggccatg ttcggagtgt atgacaacat cgggacctg ggaaactttg aaaagcacc 180
 caaagaactg atcagggggc ccatatggct tcgagggttg aaagggaatg aattgcaacg 240
 ttgtatccga aagaggaaaa tggttggaag tagaatgttc gctgatgacc tgcacaacct 300
 taataaacgc atccgctatc tctacaaaaca ctttaaccga catgggaagt ttcgatagaa 360
 gagaaagctg agaacttcgg aaaaggtcct tctgtcacc tggagaangg aaactgtact 420
 tttccc 426

<210> 584
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 584
 cactgttgct gttttcagat acaccagaag agggcatcag atctcattat ggggtggttg 60
 gagccaccat gtggttgctg ggatttgaac tcaggacctt cggaagaaca gtcagtgtc 120
 ttaaccactg agccatctct ccagcccaga tttccttttg atggtgaagc attttaattt 180
 taccattttg ctttgaaagg gcaactgtct atgttctggc actatoggta ttctggactc 240
 ctcttcgtaa aacatttctt tataacaaaa ggtgcactta cttttatttc ggtgtgtgtt 300
 ttgcctgcac gaacgacttg acatctcaag cctacctggg gtctggagag gcccgaaacg 360
 gatgtcagat gccctagaac tagagatacc gaccgttgtg cgctaccatc tgggtgctgg 420
 gaattgaact a 431

<210> 585
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 585
 aagagagaaa gagaacatth ttataccaag gagggattga ctttcagaaa agagtagact 60
 tctctctcct cccttcctcc aaaaaaagaa gttggaaacc ttctgttttt gtgtgtgtgt 120
 ttttggttgt tctttgtttg tttttgtttt tgagatggag tctcactctg tcaccacgc 180
 tactgcagtc agcctgggtg acagagtaag attctgtctc aaaagaaaaa aaaagacaga 240
 aaagaaatgg actctgatgg aaaagatgtg tacaaggctg attatactaa gcagagggat 300
 atttaaataa atgctaagaa gagaggcagg tgaagctcca ggggagccat ccttcccaaa 360
 tgttcactta aattttcagc gggttggtga tgccagatgg tgaacctagg ta 412

<210> 586
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 586

```

aagaaaaggg agccaagaag aaagtgggtg atccattttc taagaaagat tggatatgatg 60
tgaaagcacc tgctatgttc aatataagaa atattggaaa gacgctcgtc accaggaccc 120
aaggaaccaa aattgcatct gatgggtctca agggctcgtgt gtttgaagtg agtccttgctg 180
atttgcagaa tgatgaagtt gcatttagaa aattcaagct gattactgaa gatgttcagg 240
gtaaaaactg cctgactaac ttccatggca tggatcttac ccgtgacaaa atgtgttcca 300
tggtcaaaaa atggcagaca atgattgaag ctacagttga tgtcaagact accgatgggt 360
acttgcttcg tctgttctgt gttgggttta ctaaaaaacg caacaatcag atacggaaga 420
cctcttatgc t                                     431

```

<210> 587

<211> 132

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 90, 128

<223> n = A,T,C or G

<400> 587

```

aactttccca tggtcaaagg aaaaacaagc aggagttgag tggctggggg ggggtgcagg 60
caatggagag agggcataag ggtgtagaan ctgaaggggg ctagaagctt actcctgagc 120
ttcttacntc cg                                     132

```

<210> 588

<211> 425

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 13, 32, 47, 53, 56, 70, 72, 102, 128, 129, 165, 190, 420

<223> n = A,T,C or G

<400> 588

```

gggcttcttc aangaacctc agctgaaacc tntgggggat tactganttg atntgnccac 60
cagaacaggn gngctcgctt ttgttctgaa atcaaatcct cnaaagaccg ggagaagggg 120
tcacccannc gtggatcggt ggcatgtgtg gaaaagggaa accgnaacgg cccggatcat 180
tgacaagccn cgaagttatt gaagtcctgc ctctgggggc cacagctgct tgttcttgct 240
cctgacagtt caaatgcctc ctttgagcct agctcgtgag atgaaagaac agaagttgtt 300
tggaccttag agccattatc cacaatcacg gatggttctc aagagttgat tgtaagaaat 360
ttccaaagaa ggctgcctgc atagtgggtc cggtgcctt ttctaggtga ttggaatcan 420
cccat                                             425

```

<210> 589

<211> 425

<212> DNA

<213> Homo sapiens

<400> 589

```

caacagttat tttattagga tgtcagccct gggccagag tgagagatag ggacagggga 60
cagcccagcg aggtctgggtc gggggctact ccaggatgtt ccaaccacag gggcagcatc 120
tcctccactc cacatgctgg ccaagggcac agagctgccg tatcgctgc caagggggtg 180
gctcaatgct gctgccttgg tcctgtatgg gcccggggtg ccgagaacag acagcaagcc 240

```

tcaggcgccg gtcctttgag ctttcttgat ttcctcagag agcgccctcct tcagctctgc 300
 gtaggcctgg tccaggctgt cgtaaagatg gaccacatca aacaggccgg gctccttgct 360
 gctctccatg tcggcctggg cagcagccag ccgcttcacc aggctctcct cggtttcagt 420
 gttgc 425

<210> 590
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 590
 acaagtatac atataatcta gataagggct gtaatgtttc ctaatatata ttactgtact 60
 taaaaattta caggacatga acataaataa agctgtttta aactggcaaa cgtagtaata 120
 gtctgtcatt cagtacaagg tatatttatg ttatttccaa agccatcacc ctaaaatcct 180
 aagttgccac tcttaaaacc taaaaataat gtcgaaaact aaagtcataa atacatgtat 240
 acatacattt gcatatttac acttatgcag aaatcatcaa tatactagag cccagcttta 300
 acactgtcct tcagtttcac acagaaggac ccctaataac tgtaaatata taaatatgtc 360
 aggttaaagg gaaaagggtg tcagggcact tcttgctcct tctgtcccat aacctacctc 420
 cacc 425

<210> 591
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 591
 aagtatgtat gtacaagact caagtaaata gaaaggcagc tttcaatcac aaatcagttt 60
 ttcagatttt actgtggaag catatttaata gcacacattt gaatgttaca cataaataat 120
 ttttaacgatg gagtccaagt tctggatttt acattagatc tgcatatata agacacttgt 180
 ggtcaaatat caagatttgt aaagccagtt tcaagctgct tatattttga gtacaggttt 240
 cactattaca aatatatgat gttaaaactaa caaactcatg accttcaaag atgtcttcgt 300
 cccacgcaca cacatttgta atttgtgtcc atttgtctatt tcccttcttc tataatcttc 360
 aaattatata gttatgcatt gagttcccta tgcatctcac ccatctcctt tatctcagcc 420
 ttctc 425

<210> 592
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 592
 agtgaataat ggttggtttt tgtcttcgac gctcagggtc tgggcgcctc gcatttgcag 60
 tctgttgtga cagacacggg gagctccgag tgccagcctg tggctgccct gctgtggggg 120
 tcctggggcc ggcgaggccc cttcagtcct gttctggggg gacggccac tccggggagg 180
 ggggtgtgctg tgctgagcgc tgtatccctg aatatagttt attttttcta catttgaatt 240
 ctggtgtaga tttatgtaaa aatacattct ttttgaaaat aaaaattttc atgtcttct 299

<210> 593
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 593
 tttttttttc tttttccag gaggcggcga cggcggcggc ggggggagag gaagagaaag 60

```

aagcgtctcc agctgaagcc aatgcagccc tccggtcttc cgcgaagaag ttccctgccc 120
cgatgagccc ccgccgtgcg tccccgacta tcccagggcg ggcgtggggc accgggccc 180
gcgccgacga tcgctgccgt tttgcccttg ggagtaggat gtggtgaaag gatggggctt 240
ctcccttacg gggctcacia tggccagaaa agattccgtg aagtgtctgc gctgcctgct 300
ctacgccctc aatctgctct tttggaatca tcacattcca cttctaaaag gagctttaa 360
gatggcctgg ttgaacgtcc ttcctttgtg agtgaggaaa ttaagtgcag attaagtgc 420
ttgcc 425

```

```

<210> 594
<211> 425
<212> DNA
<213> Homo sapiens

```

```

<400> 594
gtcactagct ggctaaggct taaagcagag acgtgtgact gggctctctg ggagggcctc 60
tggttcttcc cgggctcagg cttgctgggg gctggggggc agggctctgg cgacctagag 120
gtgtggacgg cacagctgca ggaggccttc tcttaacct ccgagagtgg gactgggaga 180
tttctctga agtcccaaag aggccctgtg cccaggggac ctctctctcg gcctcccagg 240
tggtgtgtgc aagctggttc ttggccatgc tccaggctcg ggtgggcaca ggcgtccact 300
ccagtgtgct gcgtgcttgt gagactgcct gttctgggac cagcccttg gctcttccac 360
caagatttgg tgagggtccc cctctgcctc tcacagaagc cctggccct ggactgtcct 420
ggggg 425

```

```

<210> 595
<211> 162
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 43, 102, 126, 154, 158, 160
<223> n = A,T,C or G

```

```

<400> 595
ctttacatta ttttttttcc aaaaagacta gtatttatac aangggcaat agaaacaaaa 60
acaaaaaccc ttccgactgc cacctggaag gggctggctg gnetgctccc tctcccac 120
ggaacngggg ggggcactgg gcaggaggga atgnngangn gg 162

```

```

<210> 596
<211> 283
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 17, 106, 111, 115, 120, 127, 131, 144, 150, 153, 155, 160,
166, 171, 176, 182, 201, 203, 205, 212, 220, 221, 224, 232,
239, 242, 259
<223> n = A,T,C or G

```

```

<400> 596
aaggtgactc aacacntct tctcaagga cttcttggtg atactctctt gtcttttcca 60
gttaccctct tctcctttg tctctgtgc ttgggctcac aacttnatgg nctgnacttn 120
ataaaanaac natggcaact ttgncctgan tgnncctn cccaanctga nctggntgga 180

```

anaagaaact tggaaactat ntnanccatg gntttgggan nctnccccct tncccatgnc 240
tnctaataaaa accatgcant gcctttggag agaagagacc ccc 283

<210> 597

<211> 426

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 41, 43, 46, 197, 200, 207, 211, 217, 255, 277, 287, 293,
297, 304, 318, 327, 333, 355, 357, 359, 375, 379, 380, 394,
405, 407, 409

<223> n = A,T,C or G

<400> 597

gaaatacaaaa tgtggattct catcactgaa aaatctttga ngntgngttt attcctttca 60
tcattttttta aatatttttt ttactgccta tgggctgtga tgtatataga agttgtacat 120
taaacataacc ctcatTTTTT tcttttcttt tttttttttt ttttttagccc aaagtttttag 180
tttcttttttc atgatgnggn acctccnaag ngatggnaga tttaaataat tttttatttt 240
tattttatat atttnttcat tagggccttt tctcccnaaa acgaaanaaa aantccnaaa 300
aacnaaaccc aaaaaaanag agggtantgt ccnagtttct gtatgtataa agtcntncnc 360
gatttcagga gagcnctggn cccaatttgc tccntgaatc aaggngngna aatggttttt 420
ttggcg 426

<210> 598

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 241, 262, 300, 309, 312, 318, 327, 329, 385, 390, 399, 402

<223> n = A,T,C or G

<400> 598

tttttttttt tttttttttg ccacctagag atgataatTT attgtttttac catgactcag 60
aagagaaaca acataaagag aatatttcaa atccccacaa tttcctttctc aacctcacta 120
ctcttaacat ttctttatca gacgccactg gcttcctaaa atggaccctg gactatgtat 180
ggggaccaca ttcattatgc tgcctttcct cttatgatta aaacttttagc cctcattcga 240
nggttccaat ggtactttta gnggaggagt ccctagcttt taaaaaaacc acttttcctn 300
taaaatcctt tntttatnga aaaaaancnt ttttaaaaaat gttaaggagg attttaaatg 360
accatattca attaaaaaaa aaatnccttn tggaacatnt tngcagaaac ct 412

<210> 599

<211> 415

<212> DNA

<213> Homo sapiens

<400> 599

ccaagatgac aaagaaaaga aggaacaatg gtcgtgccaa aaagggccgc ggccacgtgc 60
agcctattcg ctgactaac tgtgcccgat gcgtgcccaa ggacaaggcc attaagaaat 120
tcgtcattcg aaacatagtg gaggccgcag cagtcaggga catttctgaa gcgagcgtct 180
tcgatgccta tgtgcttccc aagctgtatg tgaagctaca ttactgtgtg agttgtgcaa 240

```

ttcacagcaa agtagtcagg aatcgatctc gtgaagcccg caaggaccga acacccccac 300
cccgatttag acctgcgggt gctgccccac gtccccacc aaagcccatg taaggagctg 360
agttcttaaa gactgaagac aggctattct ctggagaaaa ataaaatgga aattg      415

```

```

<210> 600
<211> 208
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 45, 66
<223> n = A,T,C or G

```

```

<400> 600
aaaccgcctt tttttttttt ttttttttaa tatgcagttt gtaanaacaa aactggatgg 60
catcanaatt gtctggaagt tttgtcttgg gcagtatggg ctggggccaaa tgaaatgatt 120
tttataattc taaacaggtt accaaatgaa atgtcatggc tttactttgg caattaaagg 180
ggggaatttt tttaaaaaaa aaaaaaaaaa                208

```

```

<210> 601
<211> 165
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 19
<223> n = A,T,C or G

```

```

<400> 601
tgcaggctga cactagtgna tccaaagaaa gtaacctaaa cttgacctgc ttaatacatt 60
ctagggcgaga gaaccagga tgggacacta aaaaaatgtg tttatttcat tatctgcttg 120
gatttatttg tgtttttgta acacaaaaaa taaatgtttt gatat                165

```

```

<210> 602
<211> 416
<212> DNA
<213> Homo sapiens

```

```

<400> 602
aaaacggttt tgccgagttg ggacgtccac tgctgtcaag tcaaccagag atttgaactg 60
tgcattgggtg tgatccctga ggaaagtcag cactgggatg acgccatcag gatggatata 120
gaaccttaac tcattgaagc aggacacctg aacttgttgg acatacttgg gcaagatttc 180
agccacatac tctccaaaag ctgagagctg cttgtggggc acatcattcc gtggtctgac 240
agtggggcgcg gtgtcggccc cggcgctctc ccgcctcacc ggcagcaaca gaacggaggg 300
tcgccagtc cccctggtca gcgcgagggc cccaagatc ccgcgccacc acagcctggc 360
tacgcgcgcc gcgagtactt ctagagcggc cgcgggccca tcgattttcc acccgg      416

```

```

<210> 603
<211> 416
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> 31, 99, 174, 242, 249, 331, 415
 <223> n = A,T,C or G

<400> 603
 catgagcata aaaaaaaaaac ccaaacctgt nccatacccc tcccactcat gcaaacagct 60
 cttaaaatga agaattcttt caaaatttta cgttttttnc attcttggct caattctttt 120
 gctttcctca tcatcagaat tcaaactttg ggcaaacatg ggttttgggc tgantctttg 180
 gaatatgctg gaaaaacccc aatatgggct gcttctgctt gtttggcatg acgcaaaatg 240
 gnttcccang atactgcata gtcttgccaa gaatgttcca ttagaaaaag gcccggtgcc 300
 tcgccacact ggctggcctc tgctgggtgc ntctagagta tatcggtgc acctcagtgc 360
 atctgtccat aatttttttg aaaaaaaaaa ctcaatctta acgcgggcat attcnc 416

<210> 604
 <211> 414
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 291, 359, 367, 369, 371, 374, 381, 383, 387, 400
 <223> n = A,T,C or G

<400> 604
 aaaatttatg agctttatta aagcggttta tcacaaagat ggaaacgtac aaatgagaag 60
 catgcaacca tcatcttcca cagtcaagtc aaactgctat ttctctctct ctctgtttc 120
 atagagctgg aaactgcagg tgttataccc aacctattca tcttcaacac tgtagtccag 180
 ccccggaac tactcagggc accaaacatc caaaacataa actattatta taaaaagaaa 240
 gtgcaaagtt aaaaaagaaa acatggagac ccctccccc cataccctca nctaaaggct 300
 aacaatggca cttgggctct tgcttaatct agattgtctt caaaaagtct ctaaaatgng 360
 atactgngng ngngggggg ngngaanggt ccaaaagctn cttagtgttt gaaa 414

<210> 605
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 605
 tctcttttca caatcactca acaaacaggt cacacatccc ctaggtccac gaactcatct 60
 tctogtttgg ccaaatcgct ttcattctccc aaagctttcc agccactggt gggtaagacg 120
 ggcttagagg aatgtcgctg gagcagagcg aaaggaaaca aagacgagag gcgggcagag 180
 ttcttcagca ggcagggggc ctacagctgg ggggctgct ggctgtggtg tctctcgctg 240
 atcttctctt gtaaaactct gacttctctc atcatttcca agagtttgct cagagtggcc 300
 acttggccac cacctaggat ttgggcttct ggaatccaac gtaggtagcg ctgggccag 360
 actttgattt cgggcccctc gatatgcggt aacaacaaac catggtagtc agtggac 417

<210> 606
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 606
 ctgaattctt taatttataaa aaatcatacc taggaggtgt gctataggaa ttcagataca 60

```

ataagttgca tataaaaccc gacctcattg ctcattgtgg taaagcaagg atgatgagaa 120
aatgcacctc aggagcaaaa acacgcttta cgggcactcc gggacccaag tcccagagaca 180
tttccacgtg accttctgga aagacacacc gccacactga ctgcacgacg ggactgggtcc 240
agcctcccgg ctctcagga aggagatgag ttctctacaa agtgagtggc cacagctcca 300
ggacagggcg tccacatgtc gttgtgggtc tggctggatt ttgaggtgcc gaggaactgg 360
tcggtgtcct gatcgtattg tacgtggtgc tctcgatctc ccaactgcc taa 413

```

```

<210> 607
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 376, 384
<223> n = A,T,C or G

```

```

<400> 607
attttcatta aaactgtcag aatttgctta ctataattat gatacagtcc aaagaatgca 60
gtcacttttt atcatgttaa ctaattgttc tcttttgaag atctatgggt gactaattaa 120
acaataattc aagtagagtg tcccagaaaa aaaccacttg ggctccctgt ttggagtctg 180
gctggctctg agcattgcc aatggccccta ctcacctgac tttgtatcct ctccttttag 240
aggctttgca ttctgcaccc agcttcacta acagtgggct gaaaacatcc ttgggttgag 300
tgtttcattt gggagttatt tggccagggc cttttgaaca gtaagtgtcc ccatgaagtg 360
ctagataata tatggngtaa agangtcagc tttttttttt tttttaactc taac 414

```

```

<210> 608
<211> 415
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 22, 288, 307, 310, 322, 336, 340, 343, 352, 353, 372, 381,
395, 408
<223> n = A,T,C or G

```

```

<400> 608
gcagtgggtct gatcttaagg gncatatatat ttgcacctcc tcattcaaca cagggtctgga 60
ggttctacaa caggaaatca ggcctacagc atcctgtgta tcttgagtt gggattttta 120
aacatactat aaagtctgtg ttggtatagt acccttcata aggaaaaaat gaagtaatgc 180
ctataagtag caggcctttg tacctcagtg tgaagagaaa tcaagagatg ctaaaagctt 240
tacaatggaa gtggcctcat ggatgaatcc ggggtatgag cccagganaa cgtgctgctt 300
tttggtnacn tatccctttt tntcttaaga aagcanggtg ctnctcttatt annaaatatg 360
ttaaaaaatg gnaagcaaac nacaggtgcc ttananaatt accaatntnt aactt 415

```

```

<210> 609
<211> 420
<212> DNA
<213> Homo sapiens

```

```

<400> 609
ggttttaaaa ttatttcttg aatctctcca tacacaggca aaaataagtg tgttacttaa 60
catactggaa attgcctaac ttaatcattg ctaaagaag agaaaattat ccccaaacg 120

```



```

tgcttaacca ggaggccaat gcatttgccg acctccaaga acatggagat gaacgtgata 180
gacagactgt ccaccatctg aaccttcatt caccaccatt cgataaccct tattcaggcc 240
cagatcagca gcacatttct tgccaacaat cattaagtgt ccaagaagac tttcatcatc 300
atcttctgcc acagaaatct gggatatatg tttcttgggt atcaccagaa aatgtgttgg 360
tgcttgaggg gaaatgtcat ggaaagcaag gcaccgggtc tccttaaaaa tgattttggc 420

```

```

<210> 610
<211> 158
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 25, 29, 31, 37, 66, 83, 86
<223> n = A,T,C or G

```

```

<400> 610
caactttaaa aaaaaggggg cggtnaaana nccaaanata aaaaggtccc tttggtggat 60
aaaggnccct ttccggggacc ggnccnggac ccacctttgg gcccaaaggg ggatttaccg 120
ggtaaaccba gcctttaaaag cggtgggggt taaatttc 158

```

```

<210> 611
<211> 159
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 132, 147, 152, 154
<223> n = A,T,C or G

```

```

<400> 611
tcgacactag tggatccaaa ggaagatggc ggacattcag actgagcgtg cctaccaaaa 60
gcagccgacc atctttcaaa acaagaagag ggtcctgctg ggagaaactg gcaaggagaa 120
gctcccgcgg tntacaaga acatcgntct gngnttcaa 159

```

```

<210> 612
<211> 419
<212> DNA
<213> Homo sapiens

```

```

<400> 612
gcatttttta ttaagacatt tggggcccga gtttctctc ctctctccct ccctctctgtg 60
ctctctaaat tcagcttttg gaaacctaag tgtgccacc ttcccagca ggtagccaga 120
gcctccgggg tccctcttcc ttcttcttt ctcccagat actgcaagag acaccaagt 180
ctgctgtcag cagaggggta agcgtctggc actgatgtt atgcgcgtga gtcccagatg 240
ccgcagcggg ggggccagag gcaagccagt cccagactct aactccatct ccagctcagc 300
ctcatccaga agctcctggt gcaggtgaca gacttggtcc actttcagtc tgtgcagccg 360
ggcccgcagc ctgagcagct gccctgccag ctgccgggtc tgagcccgcg tctctctgca 419

```

```

<210> 613
<211> 419
<212> DNA

```

<213> Homo sapiens

<220>

<221> misc_feature

<222> 395

<223> n = A,T,C or G

<400> 613

```
ccccatactg aggcataata agtttgcaaa accaaggggc ctgtcttccc aaggtcttac 60
tataaaaatct gggttaggct aaaacttatt atgtagacca gagaggcggt gattttaaac 120
caatcatcct gtctcatctt cattatttct ggctttatga gcagaatgtc ctgctacctt 180
tggcttctta taaagatctt taatggagta ttttaaacad tggaaaatcc atgagtttga 240
gcttatttgg agaatgctgc taagaatggg attgactgac ataacttact agcctctttc 300
ctgcttgagg tacagcagtt ttcaatccca atgtgtaaag tgcttagaag ttatcactcc 360
ccaccttaga gcaaaaaacct tcagagaact tcagncactc caccaggcaa atagcacct 419
```

<210> 614

<211> 123

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2, 37, 74, 76, 87, 88, 91, 96, 105, 112, 117, 121

<223> n = A,T,C or G

<400> 614

```
gnggtatgga ctagaaaact tggaatgact catgaanaaa ccttggaatg acacatgaag 60
catgataggg aaantnattc tgaggcnnga ngcttnactg aattntttcc anccagnggt 120
ntt 123
```

<210> 615

<211> 362

<212> DNA

<213> Homo sapiens

<400> 615

```
gaccttgagg ttctcatcggg tgattgccct tgatttctta ggctttgggt tcagtgacaa 60
accgagacca catcactatt ccatatttga gcaggccagc atcgtggaag cgcttttgcg 120
gcatctgggg ctccagaacc gcaggatcaa ccttctttct catgactatg gagatattgt 180
tgctcaggag cttctctaca ggtacaagca gaatcgatct ggctcggtta ccataaagag 240
tctctgtctg tcaaattggag gtatctttcc tgagactcac cgtccactcc ttctccaaaa 300
gctactcaaa gatggaggtg tgetgtcacc catcctcaca cgactgatga acttctttgt 360
at 362
```

<210> 616

<211> 210

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 156, 181, 194

<223> n = A,T,C or G

<400> 616
 tgatgccacc ccgtcacccc tcccctcctg agcagggatc caagaatgtg ccaagagtcc 60
 cgccagcctc agccaggttg gctgtatat aggggccatg tgcaataggg agggacgtct 120
 totatTTTTT gctgccccct ccccgccac tgtctngggg cagggggaga aggtattttc 180
 nagataaagc acangcacca caaataaaag 210

<210> 617
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 617
 acgagctttc gtggctcact ccccttcctc tgctgccgct cggtcacgct tgtgccccgaa 60
 ggaggaaaca gtgacagacc tggagactgc agttctctat ccttcacaca gctctttcac 120
 catgccctgga tcacttcctt tgaatgcaga agcttgctgg ccaaaagatg tgggaattgt 180
 tgcccttgag atctatTTTT cttctcaata tgttgatcaa gcagagttgg aaaaatatga 240
 tgggtgtagat gctggaaaagt ataccattgg cttggggccag gccaaagatgg gcttctgcac 300
 agatagagaa gatattaact ctctttgcat gactgtgggt cagaatctta tggagagaaa 360
 taacctttcc tatgattgca ttggggcggc ggaagttgga acagagacaa tcacgcacaa 420
 atcaaagtct gtgaagacta atttgatgca gctgtttgaa gagtctggga atacagatat 480
 agaaggaatc gacacaacta atgcatgcta t 511

<210> 618
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 618
 acgaggccac agaggcgggc gagagatggc cttcagcggt tcccaggctc cctacctgag 60
 tccagctgtc cccctttctg ggactattca aggaggtctc caggacggac ttcagatcac 120
 tgtcaatggg accgtttctc gctccagtgg aaccagggtt gctgtgaact ttcagactgg 180
 cttcagtggg aatgacattg ccttccactt caaccctcgg tttgaagatg gagggtagct 240
 ggtgtgcaac acgaggcaga acggaagctg gggggccgag gagaggaaga cacacatgcc 300
 tttccagaag gggatgccct ttgacctctg cttcctggtg cagagctcag atttcaaggt 360
 gatggtgaac gggatcctct tcgtgcagta cttccaccgc gtgcccctcc accgtgtgga 420
 caccatctcc gtcaatggct ctgtgcagct gtccctacac agcttccagc ctcccggcgt 480
 gtggcctgcc aaccgggctc ccattaccca g 511

<210> 619
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 619
 gaattcggca cgagctggac aggagaagag cctggctgct gaaggcaggg ctgacacgac 60
 caggggcagc attgctggag ccccagagga tgaaagatcg cagagcacag cccccaggc 120
 accagagtgc ttcgacctg cgggaccggc tgggctcgtg aggccgacat ctggcctttc 180
 ccagggccca ggaaaggaaa ccttggaag tgctctaata gctctagact ctgaaaaacc 240
 caagaaactt cgcttccacc caaagcagct gtacttctct gccaggcagg gtgagctgca 300
 gaaggtgctt ctcatgctgg ttgatggaat tgatcccaac ttcaaatgg agcaccaaaag 360
 taagcgttcc ccattacatg ctgctgcgga ggctggccac gtggacatct gcc 413

<210> 620

<211> 415
 <212> DNA
 <213> Homo sapiens

<400> 620
 gaattcggca cgagcggcga cgggtggtggt gactgagcgg agcccgggtga caggatgttg 60
 gtgttggat taggagatct gcacatccca caccggtgca acagtttgcc agctaaattc 120
 aaaaaactcc tgggtgccagg aaaaattcag cacattctct gcacaggaaa cctttgcacc 180
 aaagagagtt atgactatct caagactctg gctggtgatg ttcataattgt gagaggagac 240
 ttcgatgaga atctgaatta tccagaacag aaagtgtgta ctggttgaca gttcaaaatt 300
 ggtctgatcc atggacatca agttattcca tggggagata tggccagctt agccctgttg 360
 cagaggcaat ttgatgtgga cattcttattc tcgggacaca cacacaaatt tgaag 415

<210> 621
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8
 <223> n = A,T,C or G

<400> 621
 agaattcngc acgagtggca gcctaagccg tgggaggggt ccagtcgaga atgggaagat 60
 gaaagacttc agatggaaca gaaataaatg ccttttttga caaacgcagc agtgcggtgcc 120
 tctagcttgc aagagcggtta ctccccttca tagcttttaa aggttttcgc actgcggtgca 180
 gtttagagtag ctaaatcttg tgtgacgctc cacaaacact tgtaagaatt ttgcagagaa 240
 agataaccgt tgccacccaa tgccccccac aggcattcta ctcccagta cctcttaggg 300
 tgggagaaat ggtgaagagt tgttcctaca acttgctaac ctagtggaca gggtagtaga 360
 ttagcatcat ccgcatagat gtgaagagga cggctgtttg gataataatt aaggataaaa 420
 t 421

<210> 622
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8, 11, 17
 <223> n = A,T,C or G

<400> 622
 cccggggngg nccctggncat aaaactttta attttactag tgttacttaa tgtatattct 60
 aaaaagagaa tgcagtaact aatgccctaa atgtttgatc tctgtttgtc attacttttt 120
 caaaattatt tttttctgta aagtataata tataaaactt cttgcttaaa ttgaattttct 180
 atattagtggt ttaattgcag tttatttaaag ggatcattat cagtaatttc atagcaactg 240
 ttctagtgtt ttgtgttttt aaaacagaat taggaatttg agatatctga ttatattttt 300
 catatgaatc acagacctcg gccgcgacca cgctaagggc gaattccagc aactggcgcg 360
 ccgctactag tggatccgag ctcggtacca agcttggggc taatcatggt catagcctgt 420
 ttctgtgtg a 431

<210> 623

<211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 81, 101, 103, 107, 111, 112, 180, 309, 331, 388, 404, 415
 <223> n = A,T,C or G

<400> 623
 agaattcggc acgaggaaac atggactgcc ccttaaattt tgactgtcct aaaaacctat 60
 ttctgattta taatatgctg nctgataaag tgacactaga ngnaccnact nnatggttta 120
 aatcttccca tttccagaat ccagaatttt ggaagccatt ttaaccaggg gtatTTTTTn 180
 caccattacc ttttggaaact ttccaaatta atggcctttt aaaaagggtg gaaggggaaa 240
 accaaaaggc caaaatttta aaaagggttg ggggggggaaac cttaaaaaaa aaaatgggtt 300
 ttggggccnc ctttttttaa aaggccaaaa nttttttggg ttccaattaa aaaaatttcc 360
 tttttccaac ccaaaattaa gaaaaggnaa aattaaaaaa attncaaaaa ttggnTTTTt 420
 t 421

<210> 624
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 624
 aagaattcgg cacgagcgga tgtgtctact gacattctac tccaagtcgg agatgcagat 60
 ccactccaag tcacacaccg agaccaagcc ccacaagtgc ccacattgct ccaagacctt 120
 cgccaacagc tcctacctgg ccagcacat ccgtatacac tcaggggcta agccctacag 180
 ttgtaacttc tgtgagaaat ccttccgcca gctctccac cttcagcagc acaccggaat 240
 ccacactggg gatagacat acaaattgtc acaccaggc tgtgagaaag ctttcacaca 300
 actctccaat ctgcagtccc acagacggca acacaacaaa gataaacctt tcaagtgcc 360
 caactgtcat cgggcgtaca cggatgcagc ctactagag gtgcacctgt ctacgcacac 420
 a 421

<210> 625
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 625
 agaattcggc acgagctact ccttgccgcgc tggcactccg cagcctttaa ggttcgcgcg 60
 ggggccaggc aagagttagc catgaagagc ctcaagtccc gcctgaggag gcaggacgtg 120
 cccggccccg cgtcgtctgg cgccgccgcc gccagcgcgc atgcagcaga ttggaataaa 180
 tatgatgacc gattgatgaa agcagcagaa aggggggatg tagaaaaagt gacgtcaatc 240
 cttgctaaaa aggggggtcaa tccaggcaaa ctagatgtgg aaggcagatc tgtcttccat 300
 gttgtgacct caaaggggaa tcttgagtgt ttgaatgcc 1ccttataca tggagttgat 360
 attacaacca gtgacactgc agggagaaat gctcttcacc tggctgctaa gtatggacat 420
 g 421

<210> 626
 <211> 476
 <212> DNA
 <213> Homo sapiens

<400> 626
 agaattgatac tatagatttta atgcaatgcc tactaaaatc ccagtagcat tttttacagg 60
 catagacaat agacatagcc aaaactttatt ctaaaatata tatgaagatg cacaggccct 120
 agttatacaa tcttgacaaa gaagaataaa gtgggaagaa tctatttgat ttttaaggctt 180
 accatgtaac tacagtcatac aagagagtgt ggtatcggca gacggtcaga catacagatc 240
 aatggaatgt aacagaggac ccagaaatag gccacacacag atatgctcaa tggatatttg 300
 acaagcgtgc aaaacaattc aatggaagaa taagctttca aaaaaatggc gttggagcaa 360
 ccgacatcc ataggaaaaa atgaacccat acctaaacca taaaccttat ataaaaataa 420
 acacaaaatg aatcataggc ttaaatgtaa gctataaaac ttttagagaa aaacac 476

<210> 627
 <211> 503
 <212> DNA
 <213> Homo sapiens

<400> 627
 tagccctcgg tgaagcccca gaccacagct atgagtcctt tcgtgtgacg tctgcgcaga 60
 aacatgttct gcatgtccag ctcaaccggc ccaacaagag gaatgccatg aacaaggctt 120
 tctggagaga gatggtagag tgcttcaaca agatttcgag agacgctgac tgtcggggcg 180
 tggatgatctc tggatgcagga aaaatgttca ctgcaggatg tgacctgatg gacatggctt 240
 cggacatcct gcagcccaaa ggagatgatg tggcccgatg cagctgggtac ctccgtgaca 300
 tcatcactcg ataccaggag accttcaacg tcatcgagag gtgccccaaag cccgtgattg 360
 ctgccgtcca tgggggctgc attggcggag gtgtggacct tgtcaccgcc tgtgacatcc 420
 ggtactgtgc ccaggatgct ttcttccagg tgaaggaggt ggacgtgggt ttggctgccc 480
 atgtaggaac actgcagcgc ctg 503

<210> 628
 <211> 248
 <212> DNA
 <213> Homo sapiens

<400> 628
 taagtccagg gggaataact gtaggcattc ctggaatcac tgtcttctgt tccattgtgt 60
 cttggttcca gggctcctc ttccgcttct tacttgggaa gtccaacggc gtggcgttcg 120
 ctccggtcgc catggcgccc ccggggacag gcaccggcac ctgcttttcc tctgcggcgg 180
 cttctccttc gcaagcctcc cggggggagg ggaccgaat gcgctgccgg agcgcgcgga 240
 gcccgctcc 248

<210> 629
 <211> 99
 <212> DNA
 <213> Homo sapiens

<400> 629
 actgccagtc caaaggcatc gtggtgaccg cctacagccc cctcggctct cctgacaggc 60
 cctgggccaac gcccgaggac ccttctctcc tggaggatc 99

<210> 630
 <211> 640
 <212> DNA
 <213> Homo sapiens

<400> 630
 gaagacatga tgctacactc agctttgggt ctctgcctct tactcgtcac agttttcttc 60


```

accatatcca atatctctga gatggaattc tccagctgaa gaaggggtcaa gtgactgtga 300
agtcttttcc aaaaatcatg ctgctccttt ctctaaagtt cttacatttt atagaaagga 360
acctttcact cttgaggcct actacagctc tectcaggat ttgc 404

```

```

<210> 636
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 321
<223> n = A,T,C or G

```

```

<400> 636
gctcactggt ccccagtgcc ctgctggagc aagcctatgc tgtgcagatg gacttcaacc 60
tgctagtgga tgctgtcagc cagaacgctg ccttcctgga gcaaactctt tccagcacca 120
tcaaacagga tgactttacc gctcgtctct ttgacatcca caagcaagtc ctaaaagagg 180
gcattgcccc gactgtgttc ctgggcctga atcgtctcaga ctacatgttc cagcgcagcg 240
cagatggctc cccagccctg aaacagatcg aaatcaacac catctctgcc agctttgggg 300
gcctggcctc ccggacccca nctgtgcacc gacatgttct cagtgtcctg agtaagacca 360
aagaagctgg caagatcctc tctaataatc ccagcaaggg act 403

```

```

<210> 637
<211> 441
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 24
<223> n = A,T,C or G

```

```

<400> 637
aggtcgacac tagtggatcc aaanaattcg gcacgaggag agagacccta aaagcaaaaa 60
tagaagggat gacccaaagt ctgagaggtc tggaattaga tggtgttact ataaggtcag 120
aaaaagaaaa tctgacaaat gaattacaaa aagagcaaga gogaatatct gaattagaaa 180
taataaattc atcatttgaa aatattttgc aagaaaaaga gcaagagaaa gtacagatga 240
aagaaaaatc aagcactgcc atggagatgc ttcaaacaca attaaaagag ctcaatgaga 300
gagtggcagc cctgcataat gaccaagaag cctgtaaggc caaagagcag aatcttagta 360
gtcaagtaga gtgtcttgaa cttgagaagg ctcagttgct acaaggcctt gatgaggcca 420
aaaataatta tattgtttgc a 441

```

```

<210> 638
<211> 404
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 324, 353, 371
<223> n = A,T,C or G

```

```

<400> 638

```



```

ccttcattgc catcaagcca gatggcgtgc agcgcggcct ggtgggagag atcatcaaac 120
gattcgagca gaaggggttc cgctgggtggc catgaagtgc cttcgggctn ttgaagaaca 180
cctgaacagc attacatcga ccctgaacga accgtccttt ctttcnnggg gctgggtgaaa 240
tacatgaact tnggggccat nggtggcatg ggcttgggaa ggggntcaat ggtgggtggaa 300
aaccggcccg aatgattcctt ggggggaana acaaatccaa nttgatttaa aaaccaggca 360
nccattnccg ggggggattt tnttgnnttt naaanttggg nagg 404

```

```

<210> 642
<211> 366
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 26
<223> n = A,T,C or G

```

```

<400> 642
tgcaggtcga cactagtggg tccaantaat tgggcacgag gagcaaaggc acatcttaaa 60
tggcagggga actacccttg atacaaccat cagatctcat gagactcact gtcatgagaa 120
cagcagcatg ggggtaacgg ccccatgatt caattacctc ccaactgagtc cctcccacga 180
catatgggga ttatgggagc tacaattcaa gatgagattt aggtggggac acagccaaac 240
catttcaata gcataacacc aaaaaagggt atagagcagt aaaaggggtg atggaccatg 300
catcagtaat aataataata attataagtg atctttaaac attcatcagg tgccaagcct 360
cgtgcc 366

```

```

<210> 643
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 145, 172, 174, 186, 187, 188, 193, 199, 200, 203, 205, 206,
211, 213, 216, 218, 221, 229, 234, 239, 248, 251, 253, 256,
257, 263, 264, 269, 272, 298, 314, 336, 339, 356, 365, 370,
392, 394
<223> n = A,T,C or G

```

```

<400> 643
gtgacctgat gagacagtta attatggcca atccacaaat gcagcagttg atacagagaa 60
atccagaaat tagtcatatg ttgaataatc cagatataat gagacaaacg ttggaacttg 120
ccaggaatcc acaatgatgc agganaagat gaagaaccaa gacccaactt tnancaacct 180
aaaaannntt ccnagggggn ttanngttt nanggnctt ntcccaant tttnagganc 240
cattgttnat ngntgnncaa aannagttng gnggaaatcc ttttgtttcc ttgggganac 300
atacatcctt tggngaaggt agtcaacctt cccgtncana aattagaaat cccctnccca 360
atcctngggn tccacaaact tcccaaagtt antnagtttc cac 403

```

```

<210> 644
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc_feature
 <222> 117, 119, 124, 130, 131, 132, 136, 139, 141, 144, 148, 149,
 150, 155, 158, 159, 161, 163, 164, 165, 168, 169, 174, 176,
 177, 180, 183, 185, 193, 194, 199, 201, 203, 204, 209, 220,
 233, 235, 242, 248, 251, 265, 275, 282, 287, 294, 297
 <223> n = A,T,C or G

<221> misc_feature
 <222> 307, 311, 373, 378
 <223> n = A,T,C or G

<400> 644
 ggggatgaca gccctaacaa gaactgtttt tgaatcggtg tgcagctcca ggcaatagag 60
 tatgtgaagc gatttcagta gaatcactta ctcatcctaa aagaaaacat tattccnant 120
 accntccttn nnattncctt nttntaannn aaacntanng ntnnntgnnt gttnannggn 180
 atnancttta aanntgcant ntnntttant cctccaaatn tttttcggtt tcntntgaga 240
 ancaccanaa nctttctttc ccttntcttc agtanttgca anagganacc tccnttnagg 300
 actggcntag ngaacgtaat ccatgcttta actgccatta aacagcccca tggttggatt 360
 tttttttttt ttngagtngg ctttccaaaa ccttgtcaaa aac 403

<210> 645
 <211> 405
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 205, 223, 262, 281, 339, 357, 369, 374, 387
 <223> n = A,T,C or G

<400> 645
 ggcgcttcca ggccgcactc cagagccaaa agagctccat ggcggcgggc gccaaagcca 60
 acaacctttc cctgggtggtg cacggaccgg gggacttgcg cctggagaac tatectatcc 120
 ctgaaccagg cccaaatgag gtcttgctga ggatgcattc tgttggaatc ttgtggctta 180
 aatgtcacta ctgggagtat gggcnaattg ggaattttat tnggaaaaac ccatgggggtt 240
 ggacatgaag ttcggacagt cnaaaaagtg ggatcatcgg naaagaccta aaaccagggtg 300
 atcggttgca tcacctgggc tcccgaataa tgataatnt gaagatggcc atacatntgt 360
 accttcatnt tttntggcac cccccnata cggaactttg cgggtt 405

<210> 646
 <211> 412
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 378
 <223> n = A,T,C or G

<400> 646
 ggaaccaggt gctgcagcc atggctcccg gccagctcgc cttatttagt gtctctgaca 60
 aaaccggcct tgtggaattt gcaagaaacc tgaccgctct tggtttgaat ctggctgctt 120
 ccggagggac tgcaaaagct ctcagggatg ctggtctggc agtcagagat gtctctgagt 180
 tgacgggatt tcctgaaatg ttggggggac gtgtgaaaac tttgcatcct gcagtccatg 240

```
ctggaatcct agctcgtaat attccagaag ataatgctga catggccaga cttgatttca 300
atcttataag agttgttgcc tgcaatctct atccctttgt aaagacaagt ggcttctcca 360
ggtgtaactg ttgaggangc tgtgggagca aattgacatt ggtgggagta ac 412
```

```
<210> 647
<211> 412
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 55, 56, 61, 63, 68, 79, 90, 136, 137, 159, 160, 163, 205,
219, 223, 314, 373, 384, 388, 400
<223> n = A,T,C or G
```

```
<400> 647
ggtcgcccg cgccccagcc cggcccgcg gcctcccgcc tccccgctag cgcannccgc 60
ngntctgntc ggctgattnc cagctatgan acaaggagaa tgaaaatatg aagaaaaagc 120
tgaacaaaaa agttanntag ctaaaacagg acttgcagnn ttnaaaacag gtccttgatg 180
gcaaagaaga ggttgagaaa caacntagag aaaatattna aantctaaat tccatggtag 240
aacgccaaaga gaaagatctt ggccgtcttc aggtagacat ggatgaactt gaagaaaaga 300
accgaagtat tcangctgcc tggatagtgc atacaaagaa cttactgatc tttacaaagc 360
caatgctgca aangatagtg aggnacanga agctgctctn accgtgaaat ga 412
```

```
<210> 648
<211> 413
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 158, 165, 181, 196, 205, 211, 220, 269, 271, 278, 279, 281,
284, 298, 300, 304, 307, 308, 311, 312, 323, 335, 346, 353,
354, 359, 382, 385, 387, 389, 391, 396, 397, 398, 399, 404
<223> n = A,T,C or G
```

```
<400> 648
ggtcgcccg cgccccagcc cggcccgcg gcctcccgcc tccccgctag cgcagcccg 60
cggctctgcc cggctgccgc cggcatgaa catcatggat ttcaacgtga agaaaacttg 120
cgggcccagc gggcaccttt tcttaagccg gcccgtnaa ttanaaaaaa aaaaacttg 180
ncaagcaaaa aaaaanaaaa ttggncttta ncttgaaaan cttcttaaca aaacttaatg 240
gtccaaaata ttgaccgaaa aaaaaatgna ncaaaccnna ntgnttttgc acccaatncn 300
aatnccnnga nnaaaaaaat tgnttattaa aaacntgaat aaaaancccc aannctatna 360
acaacccccga acttttttga cnatntntna ntgatnnng aacntaatat ggc 413
```

```
<210> 649
<211> 409
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 18, 34, 40, 281, 348, 351, 358, 365, 370, 386, 392
<223> n = A,T,C or G
```


<400> 652
 gcttctctct cctgtgcaaa atggcaactc ttaaggaaaa actcattgca ccagttgcgg 60
 aagaagaggc aacagttcca aacaataaga tcaactgtagt ggggtgttga caagttggta 120
 tggcgtgtgc tatcagcatt ctgggaaagt ctctggctga tgaacttgct cttgtggatg 180
 ttttggaaga taagcttaaa ggagaaatga tggatctgca gcatgggagc ttatttcttc 240
 agacacctaa aattgtggca gataaagatt attctgtgac cgccaattct aagattgtag 300
 tggtaactgc aggagtcccg tcagcaagaa ggggagagtc ggctcaatct ggtgcagaga 360
 aatggtaatg tcttcaaatt cattattcct cagatccgca agtacagtcc tg 412

<210> 653
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 653
 gccagttcaa gtccaccctg ccggacgcgg atagggagcg cgaggccatc ctggccatcc 60
 acaaggaggc ccagaggatc gctgagagca accacatcaa gctgtcgggc agcaaccctc 120
 acaccaccgt caccocgcaa atcatcaact ccaagtggga gaaggtgcag cagctggtgc 180
 caaaacggga ccatgccctc ctggaggagc agagcaagca gcagtccaac gagcacctgc 240
 gccgccagtt cgccagccag gccaatgttg tggggccctg gatccagacc aagatggagg 300
 agatcgggcg catctccatt gagatgaacg ggaccctgga ggaccagctg agccacctga 360
 agcagtatga acgcagcatc gtggactaca aagcccaacc tggaccctgt tgga 414

<210> 654
 <211> 404
 <212> DNA
 <213> Homo sapiens

<400> 654
 gcatggcgga gctgacggtg gaggttcgcg gctccaacgg ggctttctac aagggattta 60
 tcaaagatgt ccacgaagac tccctcacag ttgtttttga aaataattgg caaccagaac 120
 gccaggttcc gtttaatgaa gtgcgattac caccaccacc tgatataaaa aaagaaatta 180
 gtgaaggaga tgaagtagag gtatatcaa gagcaaatga ccaagagcca tgtggatggg 240
 ggctggctaa agttcggatg atgaaaggcg agttttatgt cattgaatat gctgcttgtg 300
 atgccactta caatgaaata gtcacatttg aacgacttcg gcctgtcaat caaaataaaa 360
 ctgtcaaaaa aaataccttc tttaagtgca cagtggatgt tcct 404

<210> 655
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 655
 gggcaagatc accattagca aatggaaatt acatttgaaa gccattagac ttataggtga 60
 tgcaagcatc taagagagag gttaatcaca ctatagaggc ataagtggta tcagttttca 120
 tttttctaatt tgtttaaaact gtgttttata ccagtgtttg caagtaattg ggtgttagct 180
 tgagatgggt aaaggtggtt tggggaggga ctctgttgta atggttttgc tgtaaaaaat 240
 gtttccaact ccgctgaaat gttgctgaaa agcatggtgc tggtaacagt tcaacaatcc 300
 gtggctgctc attcttgctt actttaactc cccactgaag caggtttagc tttgaagggt 360
 gtatggaaaa cctgcatgcc tgttcaattc ttttgtttct tc 402

<210> 656
 <211> 416
 <212> DNA

<213> Homo sapiens

<400> 656

```
gaatcggcac gaggtcagcc gcgagggtgtc cggcatcaag gccgcctacg aggccgagct 60
cggggatgcc cgcaagaccc ttgactcagt agccaaggag cgcgcccgcc tgcagctgga 120
gctgagcaaa gtgcgtgagg agtttaagga gctgaaagcg cgcaatacca agaaggaggg 180
tgacctgata gctgctcagg ctcggttgaa ggacctggag gctctgctga actccaagga 240
ggccgcactg agcactgctc tcagtggaaa ggcgacgctg gagggcgagc tgcattgatct 300
gcggggccag gtggccaagc ttgaggcagc cctaggtgag gccaagaagc aacttcagga 360
tgagatgctg cggcggggtg atgctgagaa caggctgcag accatgaagg aggaac 416
```

<210> 657

<211> 402

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 150, 153, 154

<223> n = A,T,C or G

<400> 657

```
gctccaagca gacacaatgg taagaatggt gcctgtcctg ctgtctctgc tgctgcttct 60
gggtcctgct gtcccccagg agaaccaaga tggctcgttac tctctgacct atatctacac 120
tgggctgtcc aagcatgttg aagacgtccn cgnntttcag gcccttggtc cactcaatga 180
cctccagttc tttagatata acagtaaaga caggaagtct cagcccatgg gactctggag 240
acaggtggaa ggaatggagg attggaagca ggacagccaa cttcagaagg ccaggaggga 300
catctttatg gagaccctga aagacattgt ggagtattac aacgacagta acgggtctca 360
cgtattgcag ggaaggtttg gtttgtgaga tcgagaataa ca 402
```

<210> 658

<211> 404

<212> DNA

<213> Homo sapiens

<400> 658

```
gcaagacgcc acttccccta tcatagaaga gcttatcacc ttctcatgac acgccctcat 60
aatcattttc cttatctgct tcctagtcct gtatgccctt ttccctaacac tcacaacaaa 120
actaactaat actaacatct cagacgtcca ggaaatagaa accggttgaa taccctgccc 180
gccatcatcc tagtcctcat cgccctccca tccctacgca tcctttacat aacagacgag 240
gtcaacgata cctcccttac catcaaatca attggccacc aatgggtactg aacctacgag 300
tacaccgact acggcgggact aatcttcaac tcctacatac ttccccccatt attcctagaa 360
ccaaggcgga cctgcgactc cttgacgttg acaatcgagt agta 404
```

<210> 659

<211> 411

<212> DNA

<213> Homo sapiens

<400> 659

```
ggcacgaggg tcgccgttac tccgaggaga taccagtcgg tagaggagaa gtcgagggtta 60
gaggggaactg ggaggcactt tgctgtctgc aatcgaagtt gagggtgcaa aatgcagag 120
taataaaact tttaacttgg agaagcaaaa ccattctcaa gaaaagcatc atcaacatca 180
ccaccagcag cagcaccacc agcagcaaca gcagcagccg ccaccaccgc caatacctgc 240
```



```

aatggggcaa caggccagca gccaaaatga aggcttgact attgacctga agaatttttag 300
aaaaccagga gagaagacct tcacccaacg aagccgtctt tttgtgggaa atcttcctcc 360
cgacatcact gaggaagaaa tgaggaaact atttgagaaa tatggaaagg c 411

```

```

<210> 660
<211> 412
<212> DNA
<213> Homo sapiens

```

```

<400> 660
ggcacgaggg ggatttgggt cgcagttctt gtttgtggat cgctgtgatc gtcacttaac 60
aatgcagatc ttcgtgaaga ctctgactgg taagaccatc accctcgagg ttgagcccag 120
tgacaccatc gagaatgtca aggcaaagat ccaagataag gaaggcatcc ctctgacca 180
gcagaggctg atctttgctg gaaaacagct ggaagatggg cgcaccctgt ctgactacaa 240
catccagaaa gagtccaccc tgcacctggg gctccgtctc agaggtggga tgcaaattct 300
cgtgaagaca ctactggca agaccatcac ccttgagggtc gagcccagtg acaccatcga 360
gaacgtcaaa gcaaagatcc aggacaagga aggcattcct cctgaccagc ag 412

```

```

<210> 661
<211> 411
<212> DNA
<213> Homo sapiens

```

```

<400> 661
ggcacgaggg gagatcgatg atcttgccag taatgtagag acagtgtcta aggccaaagg 60
aaacctcgag aagatgtgcc gcacctgga ggaccagggt agtgagctga agtcaaagga 120
ggaggaacag cagcgactga tcaacgacct gacaacccag agaggacgac tgcagaccga 180
atccggtgaa ttttcaggc agcttgatga gaaggaagcg ctggtatctc agttatcaag 240
gggcaaacag gcattcactc aacagattga ggagctaaag aggcaacttg aagaggaagt 300
aaaggccaag aacgcgctgg ccacgcccct gcagtctcc cgccatgact gtgacctgct 360
gcggaacag tacgaggagg agcaggagtc taaggctgaa ctgcagaggg c 411

```

```

<210> 662
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<400> 662
ggcacgaggg tcacaggacc agccactagc gcagcctcga gcgatggcct atgtccccgc 60
accgggctac cagcccacct acaacccgac gctgccttac taccagccca tccccggcgg 120
gctcaacgtg ggaatgtctg tttacatcca aggagtggcc agcgagcaca tgaagcgggt 180
cttctgaac tttgtggttg ggcaggatcc gggctcagac gtcgccttcc acttcaatcc 240
gcggtttgac ggctgggaca agtggttctt caacacgttg cagggcgga agtggggcag 300
cgaggagagg aagaggagca tgcccttcaa aaaggggtgc gcctttgagc tgggtcttcat 360
agtcttggtc gagcactaca agtggttggt aaatggaaat cccttctatg agta 414

```

```

<210> 663
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 140, 167, 214, 320, 339, 391, 406

```

<223> n = A,T,C or G

<400> 663

```
gcggcgctcc ttctctctcg gctcgcgctct cactcagtggt accttctagt cccgccatgg 60
ccgctctcac ccgggacccc cagttccaga agctgcagca atgggtaccgc gagcaccgct 120
ccgagctgaa cctgcgccgn ctcttcgatg ccaacaagga ccgcttnaac cacttcagct 180
tgaccctcaa caccaaccat gggcatatcc tggnggatta ctccaagaac ctggtgacgg 240
aggacgtgat gcggatgctg gtggacttgg ccaagtcag gggcgtggag gccgaccggg 300
agcggatgtt caatggtgan aagatcaact acacccgang gtcgagccgt gctgcacgtg 360
gctctgcgga accggttcaa acacacccat nctgggagac ggcaangatg tgat 414
```

<210> 664

<211> 411

<212> DNA

<213> Homo sapiens

<400> 664

```
ggcacgaggg ttagatgccg tgccatgctc cacaaccatc aacaggaacc gcatggggccg 60
agacaagaag agaaccttcc ccttttgcct tgatgaccat gacccagctg tgatccatga 120
gaacgcattc cagcccgagg tgctgggtccc catccgctgg acatggagat cgatgggcag 180
aagctgcgag acgccttcac ctggaacatg aatgagaagt tgatgacgcc tgagatgttt 240
tcagaaatcc tctgtgacga tctggatttg aaccgctga cgtttgtgcc agccatcgcc 300
tctgccatca gacagcagat cgagtcctac cccacggaca gcatcctgga ggaccagtca 360
gaccagcgcg tcatcatcaa gctgaacatc catgtgggaa acatttccct g 411
```

<210> 665

<211> 409

<212> DNA

<213> Homo sapiens

<400> 665

```
ggcacgaggg cgaatcgag cttctgagac caggggttgc cgtccgtgc tccgcctcgc 60
catgacttcc tacagctatc gccagtcgtc ggccacgtcg tccttcggag gcctggggcg 120
cggtccgtg cgttttgggc cgggggtcgc ttttcgcgcg cccagcattc acgggggctc 180
cggcggcgcg ggctatccg tgctctccgc ccgctttgtg tcctcgtcct cctcgggggg 240
ctacggcgcg ggctacggcg gctcctgac cgcgtccgac gggctgctgg cgggcaacga 300
gaagctaacc atgcagaacc tcaacgaccg cctggcctcc tacctggaca aggtgcgcgc 360
cctggaggcg gccaacggcg agctagaggt gaagatccgc gactggtac 409
```

<210> 666

<211> 411

<212> DNA

<213> Homo sapiens

<400> 666

```
ggcacgaggt gagctgaacc aagaaggagg aggggggtcg gcctccgagg aaggcctagc 60
tgctgctgct gccaggaatt ccaggttggg ggggcggcaa cctcctgcca gccttcaggc 120
cactctcctg tgccctgccg aagagacaga gcttgaggag agcttgagga gagcaggaaa 180
gcagcctccc ccgttgcccc tctggatcca ctgcttaaat acggacgagg acagggccct 240
gtctcctcag cttcaggcac caccactgac ctgggacagt gaatcgacaa tgccgtcttc 300
tgtctcgtgg ggcatectcc tgctggcagg cctgtgctgc ctggtccctg tctccctggc 360
tgaggatccc caggagatg ctgcccagaa gacagataca tcccaccatg a 411
```

<210> 667

<211> 412
 <212> DNA
 <213> Homo sapiens

<400> 667
 ggcacgagga ttatccagaa ccttgagaaa gacagacaaa aattggtcag cagccaggag 60
 caagacagag aacagttaat tcagaagctt aattgtgaaa aagatgaagc tattcagact 120
 gccctaaaag aattttaaatt ggagagagaa gttgttgaga aagagttatt agaaaaagtt 180
 aaacatcttg agaatcaaat agcaaaaagt cctgccattg actctaccag aggagattct 240
 tcaagcttag ttgctgaact tcaagaaaag cttcaggaag aaaaagctaa gtttctagaa 300
 caacttgaag agcaagaaaa aagaaagaat gaagaaatgc aaaatgttcg aacatctttg 360
 attgcggaac aacagaccaa ttttaacact gttttaacaa gagagaaaat ga 412

<210> 668
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 14, 26, 28, 29, 34, 59, 66, 71, 85, 86, 87, 88, 100, 124,
 128, 129, 130, 138, 145, 154, 155, 157, 160, 162, 173, 179,
 186, 189, 190, 191, 198, 199, 200, 201, 206, 218, 219, 221,
 223, 230, 244, 252, 258, 259, 275, 282, 289, 298, 300
 <223> n = A,T,C or G

<221> misc_feature
 <222> 301, 303, 308, 309, 313, 316, 317, 318, 320, 323, 324, 334,
 349, 350, 353, 355, 359, 363, 364, 368, 373, 381, 382, 383,
 399, 402, 403, 406, 407
 <223> n = A,T,C or G

<400> 668
 ggcacgaggg tctngggcgc gctcananna gatnatcaac ctgcgagagg tcagcaccng 60
 cttcncctg ncaccggggg agtannnnntt aattgtgaan aagatgaaag ctattcagac 120
 ttgncctnnn ataatttnaa ttgnggagga gaanntnttn tnatcaaaag ttnttttana 180
 aaaagntann ncatctnnnn ntaatnaaag tattacanna ntnactgcn attgacttta 240
 ccanaagaga angcttcnng gctttgttgc tgaancttaa tnaaaaggnt atggggantn 300
 nanaaaannt aanttnnnntn ganntaatct ttgnttgag cttatcatnn ttngntatna 360
 aannaganaa tanttctaatt nnntgttttc gaatctatna tnnctnnntt t 411

<210> 669
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 669
 ggcacgaggg cagagaaacc agattctctc tcagcagtta cagcagatgg aagctgagca 60
 taatactttg aggaacactg tggaacaga aagagaggag tccaagattc tactggaaaa 120
 gatggaactt gaagtggcag agagaaaatt atccttccat aatctgcagg aagaaatgca 180
 tcattcttta gaacagtttg agcaagcagg ccaagcccag gctgaactag agtctcggta 240
 tagtgctttg gagcagaagc acaaagcaga aatggaagag aagacctctc atattttgag 300
 tottcaaaag actggacaag agctgcagtc tgctgtgat gctctaaagg atcaaaattc 360
 aaagcttctc caagataaga atgaacaggc agttcagtca gccagacca tt 412

<210> 670
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 154, 352, 373
 <223> n = A,T,C or G

<400> 670
 ggcacgagga gagggacttc cagagaagct gggtataaaa aaccagcaat ttcacaagga 60
 acgagagcag ccaccagat ttgcacagcc tggctccttt gagtatgaat atgccatgcg 120
 ctggaaggca ctcatcgaga tggagaagca gcancaggac caagtggacc gcaacatcaa 180
 ggaggctcgt gagaagctgg agatggagat ggaagctgca cgccatgagc accaggtcat 240
 gctaattgaga caggatttga tgaggcgcca agaagaactt cggaggatgg aagagctgca 300
 caaccaagag gtgcaaaaac gaaagcaact ggagctcagg caggaggaag ancgaggcg 360
 ccgtgaagaa ganatgcggc ggcagcaaga agaatgatg cggcgacagc a 411

<210> 671
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 160
 <223> n = A,T,C or G

<400> 671
 ggcacgaggg caacatccag cctcctgaca aggtgatccg ggcgggcccc gcaggaattt 60
 tatccctca cggcctcac actagtatcg catgtccact atccagaacc tccaatcttt 120
 cgaccccttt gctgatgcaa ctaagggtga cgacttactn ccggcaggga ctgaggatta 180
 cattcatata agaatccagc aacggaacgg cagaaagaca ctgactactg ttcaggggcat 240
 tgcagatgat tatgacaaaa agaaacttgt gaaagctttc aaaaagaaat ttgcctgtaa 300
 tgggtactgtg attgaacatc ctgaatacgg agaggttatt cagcttcaag gtgaccaaag 360
 aaaaaacatc tgccagtttc tcttgagggt tggcattgta aaggaggaac a 411

<210> 672
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 672
 ggcacgaggg ccactccacc ttactaccag acaaccttag ccaaaccatt taoccaaata 60
 aagtataggc gatagaaatt gaaacctggc gcaatagata tagtaccgca agggaaagat 120
 gaaaaattat aaccaagcat aatatagcaa ggactaacc cttataccttc tgcataatga 180
 attaactaga aataactttg caaggagagc caaagctaag acccccgaaa ccagaacgagc 240
 tacctaagaa cagctaaaag agcacaccgg tctatgtagc aaaatagtgg gaagatttat 300
 aggtagaggc gacaaaccta ccgagcctgg tgatagctgg ttgtccaaga tagaatctta 360
 gttcaacttt aaatttgccc acagaaccct ctaaatcccc ttgtaaatt 409

<210> 673

<211> 412
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 16, 26, 30, 44
 <223> n = A,T,C or G

<400> 673
 ggcacgaggg gaaaanctgg gcccctctn cacagccgac caanggcagc gggctctgcc 60
 cggcgccgct ttctgcgacc tggccgctcag cccacgctcg ccggcctgga ggggcaaaga 120
 ggacgagggg gccgcggcctt cctccgggga ccttggcctg cctggattgc caggagctgg 180
 aagttgacat tgagtctagg ctgaggatgg aaggtgtgga gctgaaggaa gaatggcagg 240
 atgaagattt tccaataacct ttaccagaag atgacagcat tgaagcagat aactagatg 300
 gaactgatcc agacagacag cctggctcct tagaagttaa tgggaacaaa gtaaggaaga 360
 aactgatggc ccagacatc agcctgaccc tggatcctgg tgaagactct ct 412

<210> 674
 <211> 413
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 391
 <223> n = A,T,C or G

<400> 674
 gcacagcctc acttctaacc ttctggaacc caccaccac tgccaagctc actattgaat 60
 ccacgccggt caatgtcgca gaggggaagg aggttcttct actcgccac aacctgcccc 120
 agaatcgat tggttacagc tggtaaaaag gcgaaagagt ggatggcaac agtctaattg 180
 taggatatgt aataggaact caacaagcta cccagggcc cgcatacagt ggtcgagaga 240
 caatataccc caatgcatcc ctgctgatcc agaacgtcac ccagaatgac acaggattct 300
 ataccctaca agtcataaag tcagatcttg tgaatgaaga agcaaccgga cagttccatg 360
 tatacccgga gctgccaag cctccatct ncagcaacaa ctccaacccc gtg 413

<210> 675
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 167, 183, 316, 381
 <223> n = A,T,C or G

<400> 675
 ggcacgaggt attgttgctc cagacacagt gatccactgt gagggggagc caatcaagcg 60
 agaggatgag gaggaatcct tgaatgaagt aggctatgat gacatcgggt gttgcaggaa 120
 gcagctagct caaataaagg agatggtgga gctgccactg agacatnctg cgctctttaa 180
 ggngattggg gtaaagcctc ctcggggaat cttgttgat gggccttctg ggacagggaa 240
 gaccctgatt gctcgagctg tggcaaatga aactggagcc ttcttcttct tgatcaatgg 300
 tcttgaatc attgancaaa ttggctggtg agtctgagag caaccttcgt aaagcctttg 360

aggaagctga aaagaatgct nctgctatca tcttcatcga tgaacttgat g 411

<210> 676

<211> 413

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 56, 143, 173, 210, 267, 270, 350, 378, 389

<223> n = A,T,C or G

<400> 676

```
ggcacgagggc gggagcggcg caggcggccg agcgggaactg gctgggtcgg ctgggntgct 60
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gatgctgcgg ggcggtagct ccngcgcccc tccttgggtga ctgcttgccg cngcctcac 180
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<210> 677

<211> 410

<212> DNA

<213> Homo sapiens

<400> 677

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<210> 678

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<210> 682
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 <213> Homo sapiens

<400> 682
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401

<210> 683

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<212> DNA

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<211> 2993

<212> DNA

<213> Mus musculus

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<210> 685

<211> 486

<212> PRT

<213> Homo sapiens

<400> 685

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 <212> DNA
 <213> Homo sapiens

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<210> 692

<211> 1210

<212> PRT

<213> Homo sapiens

<400> 692

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 20          25          30
Asn Asn Tyr Trp Ile Arg Glu Asn Pro Asn Leu Asn Ser Thr Gln Glu
 35          40          45
Val Asn Glu Leu Leu Leu Gly Met Ala Ser Gln Ile Ser Glu Leu Glu
 50          55          60
Asp Asn Ile Val Val Glu Asp Leu Arg Asp Tyr Trp Pro Gly Pro Gly
 65          70          75          80
Lys Phe Ser Arg Thr Asp Tyr Val Ala Ser Ser Ile Gln Arg Gly Arg
 85          90          95
Asp Met Gly Leu Pro Ser Tyr Ser Gln Ala Leu Leu Ala Phe Gly Leu
100          105          110
Asp Ile Pro Arg Asn Trp Ser Asp Leu Asn Pro Asn Val Asp Pro Gln
115          120          125
Val Leu Glu Ala Thr Ala Ala Leu Tyr Asn Gln Asp Leu Ser Gln Leu
130          135          140
Glu Leu Leu Leu Gly Gly Leu Leu Glu Ser His Gly Asp Pro Gly Pro
145          150          155          160

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Gly Leu Asp Cys Lys Asp Lys Phe Gln Leu Ile Leu Thr Ile Val Gly
 180 185 190
 Thr Ile Ala Gly Ile Val Ile Leu Ser Met Ile Ile Ala Leu Ile Val
 195 200 205
 Thr Ala Arg Ser Asn Asn Lys Thr Lys His Ile Glu Glu Glu Asn Leu
 210 215 220
 Ile Asp Glu Asp Phe Gln Asn Leu Lys Leu Arg Ser Thr Gly Phe Thr
 225 230 235 240
 Asn Leu Gly Ala Glu Gly Ser Val Phe Pro Lys Val Arg Ile Thr Ala
 245 250 255
 Ser Arg Asp Ser Gln Met Gln Asn Pro Tyr Ser Arg His Ser Ser Met
 260 265 270
 Pro Arg Pro Asp Tyr
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<210> 694
 <211> 157
 <212> DNA
 <213> Homo sapiens

<400> 694
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 ggggtcttaa ttgaaatgaa aatttaattt tgttttt 157

<210> 695
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 695
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 aaaaaggaga aaaaagacag aactaaaccc gtttaggaaa aagggaccga gggacagcag 120
 tggttaagta atccactgag gacctgaagg ggaaaatgga cttacctttc tcatatactt 180
 ggcctggcta ggacactggg tgccagacag cttctgagg ggattttctt tctaaatgag 240
 g 241

<210> 696
 <211> 188
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 11, 29, 30, 59, 62, 165
 <223> n = A,T,C or G

<400> 696
 gcccatgatg ncagagctgg aagagagggn acgtcagcag aggggccacc tccatttgnt 60
 gnagacaagc atagatggga ttctggctga tgtgaagaac ttggagaaca ttagggacaa 120
 cctgccccca ggctgctaca ataccaggc tcttgagcaa cagtnaagct gccataaata 180
 tttctcaa 188

<210> 697
 <211> 289
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 50, 86, 207
 <223> n = A,T,C or G

<400> 697
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 acccatcagg ccaagcagga cttgtnaaac atacacattc aagttcctag cacacagtag 120
 gtgctaagtg ggaattgatt ataaacttga attcttccat caacaaatat ctacctctcc 180
 tgtccagctt gcctcagatc ttcaggntct ctcttctctg aggcagctaa gcttctacat 240
 ccttcatgaa gtttccttta cttctcgaca gaagacagtt ccctttagg 289

<210> 698
 <211> 193
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 171
 <223> n = A,T,C or G

<400> 698
 aaagtttgtg ctataaaatt gtgcaaatat gttaaggatt gagaccacc aatgcactac 60
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 actaaggcta accaaactta gatataaatc ctaccaataa aatttttcag ntttaagttt 180
 tacagtttga ttt 193

<210> 699
 <211> 279
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 60, 126
 <223> n = A,T,C or G

<400> 699
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 taagaccagt atagtaaact tagccacag tggcaaataa tgagtaatat tgtaatatgt 120
 tccagnggga taccctcctt gtcttgaatt ttggctttga cattctcaat ggtgtcaactg 180
 ggctcgacct caagggtgat ggttttgccg gtgagggtct tcacaaagat ctgcatgttt 240
 gcgtccgcac gaccgcgcgc accaaccagc tcggccgcc 279

<210> 700
 <211> 340
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 174
 <223> n = A,T,C or G

<400> 700
 ctgtccaatg acaacaggac cctcactcta ctcagtgtca caaggaatga tgtaggaccc 60
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 gtcctctatg gccagacga ccccaccatt tccccctcat acacctatta ccgnccaggg 180
 gtgaacctca gcctctcctg ccatgcagcc tctaaccac ctgcacagta ttcttggtg 240
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 aacagcggac tctatacctg ccaggccaat aactcagcca 340

<210> 701
 <211> 277
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 13, 29, 109, 117, 182
 <223> n = A,T,C or G

<400> 701
 ccactggctg agntattggc ctggcaggna tagagtccgc tgtttctctc agtgatgttg 60
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 gcaggtgggt tagaggctgc atggcaggag aggctgaggt tcacccctgg acggtaatag 180
 gngtatgagg gggaaatggt ggggtcgtct gggccataga ggacattcag gatgactggg 240
 tcgctgtggt caacacttaa tttgttctg attccac 277

<210> 702
 <211> 255
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 27, 42, 86
 <223> n = A,T,C or G

<400> 702
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 cggaaatcca ttgccgtgt tctcanagtt attaaccaga ctcaaaaaga aaacctcagg 120
 aaattctaca agggcaagaa gtacaagccc ctggacctgc ggcctaagaa gacacgtgcc 180
 atgcgccgcc ggtcaacaa gcacgaggag aacctgaaga ccaagaagca gcagcgggaag 240
 gagcggctgt acccg 255

<210> 703
 <211> 224
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> 13, 42, 43, 74, 89, 179, 210, 216
 <223> n = A,T,C or G

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 agggagcaca gtctgcaccc agctctcatc ccatcggagc tgctgcgact cccgcaggnt 180
 cttccggaac tggtttagct tgcccgcagn atcagnaaag tttg 224

<210> 704
 <211> 445
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 251, 313, 392, 427
 <223> n = A,T,C or G

<400> 704
 aggtaaaaag cagcctgggc aagagaagtg ggtgggttta ggagaatccc tttcgaaaaa 60
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 gaatctggac aattttttga taaactttta ggctgctaaa taattttacag aaactgtgaa 180
 tgcattttca ttttacgagg caaaagagaa aatattcaag attgcatagc aattttattt 240
 tttgaaatgg ntatcctaaa gaatttcctt aaattcagat tttgcaaaat tcctactctc 300
 caagtcatca agngaacact aaaagcaact ttactcgtga atacagggga ctctttacga 360
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 atcctgngat ttctgcatat aatat 445

<210> 705
 <211> 107
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8, 29, 32, 46, 47, 54, 62, 70, 91, 102, 103
 <223> n = A,T,C or G

<400> 705
 atcacccnat ttaattaaaa atccctggnc tnaggaccta cagcanngta ctgnagaact 60
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<210> 706
 <211> 113
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 22, 105
 <223> n = A,T,C or G

<400> 706
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<210> 707
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 47, 127, 132, 135, 159, 208, 221, 223, 236, 276
 <223> n = A,T,C or G

<400> 707
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 ccagtancctg gnggnggagt ccagcacggg catcatcgnc atctgggaca agaggaccac 180
 cgtgttcctc aagctggctc cctcctanaa gggcacctg ngnggcctgt gtgggnactt 240
 tgaccaccgc tccaacaacg acttcaccac gcgggnccac atg 283

<210> 708
 <211> 341
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 182
 <223> n = A,T,C or G

<400> 708
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 gtcctctatg gccagacga cccaccatt tccccctcat acacctatta ccgtccaggg 180
 gngaacctca gcctctcctg ccatgcagcc tctaaccacac ctgcacagta ttcttggtctg 240
 attgatggga acatccagca acacacacaa gagctcttta totccaacat cactgagaag 300
 aacagcggac tctatacctg ccaggccaat aactcagcca g 341

<210> 709
 <211> 376
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 62, 110, 115, 116, 155, 167, 203, 218, 286, 320, 328, 337
 <223> n = A,T,C or G

<400> 709
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 tggtagacgg caaggatgtg atgccagagg tcaanaaggt tctgganaag atgaagtctt 180
 tctgccagcg tgtccggagc ggngactgga aggggtanac aggcaagacc atcacggacg 240

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tcatcaacat tggcattggc ggctccgacc tgggacccct catggngact gaagccotta 300
agtcatactc ttcaggaggn ccccgcgnc tgggatgntc caacattgat ggaactcaca 360
ttgccaaaac cctggc 376

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<210> 710
<211> 232
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 42, 52, 62, 79, 83, 106, 134
<223> n = A,T,C or G

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<400> 710
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agccgagaga aaanagtcca ggccagtatg ttacaggagc tggaaggtgt ttgggggtcag 180
acccaatac tccaagtaca ctaagcactt cagtgcctcc aggggctcaa cg 232

```

```

<210> 711
<211> 317
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 227
<223> n = A,T,C or G

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```

<400> 711
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acattttctac atgtgaaaaa acagtaaaaca gtgttaacat ccaagttatt agtctcaatt 180
ccacgtctcc tagtgaacac cactatcaac cttgagatct gatttgntct tgtcattctt 240
cactgagtag atgaaatatg ttaaggtgtc tttttcattc actggaatag acctaaagtg 300
gcaaccaact atctcaa 317

```

```

<210> 712
<211> 154
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> 2, 16, 30, 33, 55, 108, 130
<223> n = A,T,C or G

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<400> 712
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tctgatttgn tcttgtcatt cttcactgag taga 154

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```

<210> 713

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<220>

<221> misc_feature

<222> 59, 74, 77

<223> n = A,T,C or G

<400> 716

aaacttttta tttgcatatt aaaaaaattg tgcattccaa taattaaaat catttgaana 60
 aaaaaaaaaat ggcncnttga ttaaaactgca ttacag 96

<210> 717

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 104, 224, 233, 343

<223> n = A,T,C or G

<400> 717

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 gcaaaagatc gagatcctga aatggaaaat gaagaacaac catcctctga aaatgattct 180
 cagaatcaga gtgggtgaaca gatttcatca agttctcagg aggntgattt ggntgatcaa 240
 gagtcttctg aggaaaattc tctaaattct caccacagaat cattatctct agcagatatg 300
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<210> 718

<211> 200

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 17

<223> n = A,T,C or G

<400> 718

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 gcttctgtgg aaccatggaa gaagatgaaa atgagactgg caaagaacaa atgctgaatc 120
 tgaagaagat ttgggcaaat aatctgcata cttttaattg ggaataagat ggaaaatatg 180
 aatgctaaat caaatttttt 200

<210> 719

<211> 336

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 71, 260, 314

<223> n = A,T,C or G

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<210> 723

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 67, 124, 156, 208, 241, 261

<223> n = A,T,C or G

<400> 723

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acacgngtg caccacctcc ttgcgtttct ggagctcccc atctgggcac tgcacgaact 120
tggntcggga gcccatagcg tegtatgcgc gggcgngtgt gaaggagcgg cccaacttgg 180
agatcttgcc cgtcgccttg tegtatgnga tcacgtcccc ggctgggacc ttgtccttgg 240
ncagggactc aatcatcttg ntgcccg 268

<210> 724

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 63, 191, 201

<223> n = A,T,C or G

<400> 724

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cagttagtgc attaaagttt tggaaattct cagacagtgc agtggatatca gaaacttgta 180
ttcaagagta naggtcagag ncttcttttc ttttctttt gagatggagt cttgctctgt 240
tgccagactg gagtgcagtg gtgcgatctg ggctcactgc aatctccacc tcccgggttc 300
aagcgattct cctgcctcag cctcccagat aactgggact acag 344

<210> 725

<211> 345

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 32, 90, 179, 223, 306, 339, 340

<223> n = A,T,C or G

<400> 725

aaacaagaga aagtagacag atacatgttg gnaaatgcta actgtccata ttcacataga 60
gacacagtgt actctctgag cccaatatan agagaaagga ggaaaaaagc tagaattcta 120
tgcactacta cacaggggcc tagcaccctc cagcttccag cagagcgaag ggagcaggnt 180
tttctttttt cccacagagc tcgggggggtt gattccatac agnttttggt cagacaggaa 240
gggataaaaa tgaacttcga acagaaaggg gtagagactc ttttcccatt gtattctgct 300
caagggnattt ccccccaaat aaattgagaa ccatggaggn gagaa 345

<210> 726
 <211> 305
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 112, 118, 187, 284
 <223> n = A,T,C or G

<400> 726
 ttgcctgatg tcagagcccc tccacacatg agcctgctcc ctactgccaa caccgtggcc 60
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 cagatcgatga ggaaaaaggg cgccgagggt gggggcatgt ctctcttctt accaagctag 180
 actgggntgc cttttctaac tattccagcc ctacaggcg aggggccata atggagtatc 240
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 gccag 305

<210> 727
 <211> 387
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 131, 151
 <223> n = A,T,C or G

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 tcattactta nagttacatg atcgacaacg ngatcctgct catcacaggc acgctgcacc 180
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 agatcatccg caacaccctc tacaagg 387

<210> 728
 <211> 109
 <212> DNA
 <213> Homo sapiens

<400> 728
 ctgactgaca gccagattgc agatgtggct cgcttttgta accgctaccc taatatcgaa 60
 ctatcttatg aggtggtaga taaggacagc atccgcagtg gcgggccag 109

<210> 729
 <211> 329
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> 247, 281, 304
 <223> n = A,T,C or G

<400> 729
 aaagcatagg actatagtca gcatgctaga ctgagaggta aacactgatg caattagaac 60
 aggtactgat gctgtcagtg ttttaacta tgtttagctg tgtttatgct ataaaagtgc 120
 aatatttagac actagctagt actgctgcct catgtaactc caaagaaaac aggatttcat 180
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<210> 730
 <211> 238
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 67, 204
 <223> n = A,T,C or G

<400> 730
 aaaaagtggc agagtgactt aactgatcat gcatgatccc tcatccctga aattgagttt 60
 atgtagnocat ttacttatt ttattcatta gctaactttg tctatgtata ttcttagata 120
 ttgattagtg taatcgatta taaaggatat ttatcaaacc cagggtattgc attttgaaat 180
 tataattatt ttcttttgctg aagnattcat tgtaaaacat acaaaataaa catatattt 238

<210> 731
 <211> 297
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 202, 254
 <223> n = A,T,C or G

<400> 731
 aaactgaatt ttttgacctt ggaaaatatt tttcttactt taccaaggtg aagtttcctt 60
 aattagacta attatattat ccccatccca gggataaac aggaattgtt ttgatagtgg 120
 tggagttatt cactgcaaca aagcaacaat gttgtccatg attcaaaatc taagcagttt 180
 cgattttgcc tgtgaatatg gngtctgtca ttcagggcat agctcactgt aggctagcct 240
 ctgcttactt aagnctcttc tctgacatac tcaatggaag aatattttaga tttattt 297

<210> 732
 <211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 88, 104, 131, 184
 <223> n = A,T,C or G

<400> 732
 ctgtcagtct tcttgaaatg aagaaactac accagggctg ctatatcaga gcaaccccaa 60
 ccagcactcc aatcatgatg ccgacagngg cccaattag aagntcaaaa acaaaaatta 120
 agttaggtag ncagacatct ataaatacta gtatccgcat gaatgaaaac accctggctt 180
 tggnatggct acagaaatcc atctggaaat tattcaaaaag gacgtgggtc agggaaaagg 240
 gggtaggcag ggcattggggg gaggggaaca caaaaaccc ccaagcagag gtaaaatgaa 300
 tattggaaca caccgcagc aaacactgta catagacttg aggcagatgc ctctaacaca 360
 acacatatat 370

<210> 733
 <211> 242
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 129
 <223> n = A,T,C or G

<400> 733
 cctcctatattt attctagcca cctctagcct agccgtttac tcaatcctct gatcaggggtg 60
 agcatcaaac tcaaaactacg ccttgatcgg cgcactgcga gcagtagccc aagcaatctc 120
 atatgaagnc accctagcca tcattctact atcaacatta ctaataagtg gtccttttaa 180
 cctctccacc cttatcacia cacaagaaca cctctgatta ctctcgccat catgaccctt 240
 gg 242

<210> 734
 <211> 368
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 154, 188, 311
 <223> n = A,T,C or G

<400> 734
 cctttcttgt aagtgaagaa aaaggaatgc agcaaagaag agttcgacat tggagtcctt 60
 agttccatca ggatcccatc cgcagccttt agcatcatgt agaagcaaac tgcacctatg 120
 gctgagatag gtgcaatgac ctacaagatt ttgngttttc tagctgtcca ggaaaagcca 180
 tottcagnct tgctgacagt caaagagcaa gtgaaacat ttccagccta aactacataa 240
 aagcagccga accaatgatt aaagacctct aaggctccat aatcatcatt aaatatgccc 300
 aaactcattg ngacttttta ttttatatac aggattaaaa tcaacattaa atcatottat 360
 ttacatgg 368

<210> 735
 <211> 308
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 92, 101, 120, 216, 279
 <223> n = A,T,C or G

```

<400> 735
ctgtccaata ggcgtagcta tccggacaga gcacgtttgc agaaggggga ctcttcttcc 60
aggtagctga aaggggaaga cctgacgtac tntgggttagg ntaggacttg ccctcgtggn 120
ggaaactttt cttaaaaagt tataaccaac ttttctatta aaagtgggaa ttaggagaga 180
aggtaggggt tgggaatcag agagaatggc tttggncctt tgcttggtggg actagcctgg 240
cttgggacta aatgccctgc tctgaacacg aagcttagna taaactgatg gatatcccta 300
ccttgaaa 308

```

```

<210> 736
<211> 354
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 57
<223> n = A,T,C or G

```

```

<400> 736
ccttctgcta cgtagtctac aacagaagga ttcaggcaat tacctctgcc atgcgngnga 60
acatgggttc atacaaactc ttcttaaggt aaccctggaa gtcattgaca cagagcattt 120
ggaagaactt cttcataaag atgatgatgg agatggctct aagaccaaag aaatgtccaa 180
tagcatgaca cctagccaga aggtctggta cagagacttc atgcagctca tcaaccaccc 240
caatctcaac acgatggatg agttctgtga acaagtttgg aaaagggacc gaaaacaacg 300
tcggcaaaag ccaggacata ccccaggga cagtaacaaa tggaagcact taca 354

```

```

<210> 737
<211> 198
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 59, 184
<223> n = A,T,C or G

```

```

<400> 737
ctgccgctgc acacgctcgt tcttctctgc ctacgtgatg cgcttctcct cattgcggnc 60
atcccggatg ccctcactag acagctccgc gctgtagccc gtgggctctg cgccctcatc 120
ctgcaagctc tcttgacat ggtagctcac cggctcgtac acgggggggtg gtgggggctg 180
ggngctgtc atcaccag 198

```

```

<210> 738
<211> 228
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 36, 93, 202, 221
<223> n = A,T,C or G

```

```

<400> 738

```



```

gtgccatggc acacagcctg ggtgcacacc cagcgcncctc tcttgacagt gcagggtattg 60
cagtccacct tgatcttggc gccggaagaa tanaggtcgt tgttatggac gcaagggcat 120
tccttctcca ccacgcagcc accccggccg tcatccatca gcccgtcggg gcacacacag 180
ccactgacac actctgtgtg gnaatagccg gcggccagcg nctggcag 228

```

```

<210> 739
<211> 378
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 124, 136, 169, 200, 230, 233, 247, 332, 339
<223> n = A,T,C or G

```

```

<400> 739
aaaaaataca ggagtcgata gcagcagttg gtgacgagat ggcactcaga aacggcgcttg 60
acgtaattta ggacgtggaa tcataagcga aacagcacac tgtttgaata aagagcgagt 120
cggnaattat atttgntttt cttttgtcat gattatttga tttttaagnt gctccagcta 180
aggcattttt ttgtattagn atttctatta gggaaccttt cttattaggn ggnttgtatt 240
gtctggnctt taacatgcag gtagctgttt ggcagttaaa cacgtttaga gtaatttgag 300
ttacaacgtg tgaaactgag caaaaaagca gngataagnt tgggttacca taccaaatat 360
ttgttttccc actggaaa 378

```

```

<210> 740
<211> 200
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13, 95
<223> n = A,T,C or G

```

```

<400> 740
ccacttgagt ggntcctggc tgcttctgtg attgttaggt cttgagagat tatggacccg 60
aggcattctg ggtaccccat caattggctg atggncttct atttgggctg cgcttcttct 120
aaaaagggga gctcaaaggt ctttttttcc cccactgcag agctaaaaaa gtccctgtac 180
gccatcttct cccagtttgg 200

```

```

<210> 741
<211> 273
<212> DNA
<213> Homo sapiens

```

```

<400> 741
ctgcttgga ctcgtaatggg ccggtggcat catgagcccc agaatcagcc ttgccaggtc 60
tccagagatc tcagacttca ggtcagtcac taagtcgccg ccaaagttag acttgaaggt 120
ctgccggatc tgctgcgcgt ggacattgct gcggtgcgtg atgatatcga tgattgtgtc 180
ttcgtcagtc ccgagtcctt tcatggcttt ccgcagcgtt ttggcatctg cgtcaggggt 240
gaagtcattg gctgggcgca caggtccttt cag 273

```

```

<210> 742
<211> 297

```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 89, 188, 264, 266
<223> n = A,T,C or G

<400> 742
ctgcagttgc tcccttttagg gttataaaat aatgacccaa atgttacatg tgttgatatt 60
ataacttgtc agttactgat gtctgtggna tcctaccctc atctctgaaa gggataatac 120
tgaataatta ttagaaaact ataaaacttc acactttgta ccattaaaac ctaaaatttt 180
aatcttgncc ttttttacta tggatcagtc ggcactcggg aacagcagca aggaaaagag 240
gcaaatttca ttcacatggt ctgngntcat acctcttctc tacctaattg ttcattt 297

<210> 743
<211> 381
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 240, 243, 252, 291, 305, 321, 324, 327, 342
<223> n = A,T,C or G

<400> 743
ctgcacctcc acctccttga agttgaagat actattgcc acaaagccag cagccagctc 60
tggacagtat gcttcagagg aacctccatg ccggctcagt gacacactct ctgcagccag 120
ggtaatgaac ttgtccctcag ctacaaaagc tgtgagcttg gctgtgctca cctccagggt 180
taggttttagc agccgctttg ggggtaatgg ctcaggggca cggccttcta gctcagaagn 240
agntcctgaa gnctctagtg caagggatgg tacagtctca ggaaacacag nggctcttag 300
taggnctcgg cactgtagag ngnggnatc cccagagctg gngatgattt ggttgtcatc 360
caggaagcgg caacacgaca g 381

<210> 744
<211> 167
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 6, 78
<223> n = A,T,C or G

<400> 744
cagcgngggg ctcggagagg tgctcggatt ctgtagctg tgccgggact taaccaccac 60
catgtcgagc aaaagaanaa agaccaagac caagaagcgc cctcagcgtg caacatccaa 120
tgtgtttgct atgtttgacc agtcacagat tcaggagttc aaagagg 167

<210> 745
<211> 96
<212> DNA
<213> Homo sapiens

<400> 745
ccacaaactc ctctggctgt actccctcct gcaggagacc ggcctcactg cactcagcag 60
gctctttctcc ctgcgattca cttctgggac agtcac 96

<210> 746
<211> 391
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 257
<223> n = A,T,C or G

<400> 746
ccattacgca gccgcttcag caaacagggc tctctccggc ccgagggcgg gaccacagtg 60
gccgtcagca ggctgagatc cgtctctgag atgttgatgg ggatgtcggc agcagagccg 120
acctttaggt gggacatacg catggagtcg tcacctgtga cccgggcagt gaaggggctg 180
cctgggacgt gctgttcatt gtacttgact agaatgctgt agtcccccg cagcacaggc 240
aagtaggaca cgctgcnatg tccatcctg gttgtcagt cagtgttgc tgttcagtat 300
ctcaagccca gaaagatgaa ttaatccttg aaggaaatga cattgagctt gtttcaaatt 360
cagcggcttt gattcagcaa gccacaacag t 391

<210> 747
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 71, 233, 367
<223> n = A,T,C or G

<400> 747
aaagttgttt gtgccttttt atttttgttt ttaatgcttt gatatttcaa tgtagcctc 60
aatttctgaa naccataggt agaatgtaaa gcttgtctga tcgttcaaag catgaaatgg 120
atacttatat ggaaattctg ctacagataga atgacagtcc gtcaaaacag attgcttgca 180
aaggggaggg atcagtgtcc ttggcaggct gatttctagg taggaaatgt ggnagcctca 240
cttttaaatga acaaattggcc ttattataaaa actgagtgc tctatatagc tgatcagttt 300
tttcacctgg aagcatttgt ttctactttg atatgactgt ttttcggaca gtttatattgt 360
tgagagngtg accaaaagtt acatgtttgc acctttctag gtgaaaat 408

<210> 748
<211> 337
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 34, 63, 224, 302
<223> n = A,T,C or G

<400> 748
ggcggagaga ggcgagcacc gggaagggga gcnnggggcc gctggaatgg gtgaatttaa 60

<210> 752
 <211> 248
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 188
 <223> n = A,T,C or G

<400> 752
 ctggcactga ggattatata catataagaa ttcaacagag aaacggcagg aagaccctta 60
 ctactgtcca agggatcgct gatgattacg ataaaaagaa actagtgaag gcgtttaaga 120
 aaaagtttgc ctgcaatggt actgtaattg agcatccgga atatggagaa gtaattcagc 180
 tacagggnga ccaacgcaag aacatatgcc agttcctcgt agagattgga ctggctaagg 240
 acgatcag 248

<210> 753
 <211> 346
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 137, 313
 <223> n = A,T,C or G

<400> 753
 ctgctagaaa acagggaaga tattagccaa tatggaattg ccaggttctt cactgaatat 60
 tttaacagtg tatgccaggg aacacacatt ctctttcgag aattcagctt cgtccaagcc 120
 acccccacaca atagggnatc atttttacgg gccttctgga gatgcttcog aactgtgggc 180
 aaaaatggcg atttgctgac catgaaagaa tatcactgtt tgctgcaatt actgtgtcct 240
 gatttccgcg tggagctcac tcagaaagca gccaggattg tgctcatgga cgatgccatg 300
 gactgcttga tgnctttttc agatttcctc tttgccttcc agatcc 346

<210> 754
 <211> 100
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 22, 71
 <223> n = A,T,C or G

<400> 754
 gtgccacagg cagccctggg anataggaag ctgggagcaa ggaaagggtc ttagtcactg 60
 cctcccgaag ntgottgaaa gcactcggag aattgtgcag 100

<210> 755
 <211> 405
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 214, 305, 366, 368, 378
 <223> n = A,T,C or G

<400> 755
 tgtgggccc a cttcccaaat ctctggagga tctgcagctt actcataaca agatcacaaa 60
 gctgggctct tttgaaggat tggtaaacct gaccttcac cactccagc acaatcggct 120
 gaaagaggat gctgtttcag ctgcttttaa aggtcttaaa tcaactcgaat accttgactt 180
 gagcttcaat cagatagcca gactgccttc tggntccct gtctctcttc taactctcta 240
 cttagacaac aataagatca gcaacatccc tgatgagtat ttcaagcgtt ttaatgcatt 300
 gcagnatctg cgtttatctc acaacgaact ggctgatagt ggaatacctg gaaattcttt 360
 caatgngnca tccctggntg agctggatct gtccataaac aagct 405

<210> 756
 <211> 306
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 112, 157, 186, 271
 <223> n = A,T,C or G

<400> 756
 ccttgggaaa ttacctggaa atgcgactga aatcttcctt cctgaggggt ctgggctctt 60
 ggaaatcaaa cctctcagg ttgggtggct ggacgattct cctcacactt anaatgggac 120
 aaggggaaacc aggaggcccc caaggggatc cctgggntcc acacgaactc ctccatccct 180
 cattgngtga cagcagccat gcctcctcct ggggatcagg atctattacc tgtgcctgga 240
 gaggagggga ctccctctct caccgctgg nctctggaca catactgtcc aattccccctg 300
 tggcag 306

<210> 757
 <211> 321
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 12, 46, 65, 79, 92, 127, 180, 186, 204, 208, 235, 275
 <223> n = A,T,C or G

<400> 757
 ctggaggag gntccctggg aggtttttgt ggattccttc tgcagnact cccctgggtt 60
 ctgntcttg ggaccagng tccaggcgca gncttttagc acttctcagt gtagacgttg 120
 acaggntct tttcccgctt gaatcctgct gagtcccaa atctcttgac ttgtcttgn 180
 tacagnacc accagagctg ctncagntt tgacaaaagc agttgctgct gaagngatcg 240
 ttttgaatcc tatcatagca ctggcaggtc ccggnaaatt cttacagtca gcaggcggac 300
 ctctgtgag ttgaatatc c 321

<210> 758
 <211> 278
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 12, 54, 111, 149, 220, 226, 273

<223> n = A,T,C or G

<400> 758

```
cgctcggcaa gntctcccag gagaaagcca tggtcagttc gagcgccaag atcntgaagc 60
ccaatggcga gaagccggac gagttcgagt ccggcatctc ccaggctctt ntggagctgg 120
agatgaactc ggacctcaag gctcagctna gggagctgaa tattacggca gctaaggaaa 180
ttgaagttgg tgggtggtcgg aaagctatca taatctttgn tcccgntcct caaacctgcc 240
cgggcgggcg cttcgagccc tatagtgagg cgnattag 278
```

<210> 759

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 268, 301, 318, 321, 333, 367

<223> n = A,T,C or G

<400> 759

```
gcaaactgca aaccatggtg agaaattgac gacttcacac tatggacagc ttttcccaag 60
atgtcaaaaac aagactcctc atcatgataa ggctcttacc cccttttaat ttgtccttgc 120
ttatgcctgc ctctttcgct tggcaggatg atgctgtcat tagtatttca caagaagtag 180
cttcagaggg taacttaaca gagtatcaga tctatcttgt caatcccaac gttttacata 240
aaataagaga tccttttagt caccagnga ctgacattag cagcatcttt aacacagccg 300
ngtgttcaaa tgtacagngg nccttttcag agntggactt ctagactcac ctgttctcac 360
tccctgnttt aattcaacce agccatgcaa tgccaaataa t 401
```

<210> 760

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 278, 335

<223> n = A,T,C or G

<400> 760

```
ccgaggtttg gatcatggga gaacagcaga aaggggttat tgaggggaacc tacactgttc 60
tagctgcacc coatgcctt ctcagaggaa agcctggcat tgattagata ctgggccaga 120
ctaatactgg cagcagagcc agtgatagta acctgcctac cagaggagcc ttccactggg 180
ttggcaatth tgatctgggc cccggacatc tggcggatct cattaatgtt ggccgcttgg 240
cgcccgatta tgcagccaat taagttatth ggaatggnga gttcatgggt ggthtgagta 300
gatgcatcca aacttgccca atagcctthc acctntggag agacct 346
```

<210> 761

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 159, 185, 196

<223> n = A,T,C or G

<400> 761

```
gagacagact gggatgatgac gctgaatctg cagaggtgct ggtgaccaat tcccctaaag 60
catctacttg tctctcctaaa ctgtgtaaaag tgccctctgt ctgccgcttt cctttaatta 120
atacttctgc ttgcttggac atacagtgtc ggagttggnc ctgaaaagtg tgataagact 180
taggnnttta cacagnaaga aatgtaccag aactgctgct cagcttcctc acatacattt 240
gataggcaaa tctagc 256
```

<210> 762

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 12, 39, 162

<223> n = A,T,C or G

<400> 762

```
tggactctgg antgatgctg gaagtagata cgaaaatgng aagaacaatg gaacagcaca 60
ctttctggag catatggctt tcaagggcac caagaagaga tcccagttag atctggaact 120
tgagattgaa aatatgggtg ctcatctcaa tgcctatacc tncagagagc agactgtata 180
ctatgccaaa gcattctcta aagacttgcc aagagctgta gaaattcttg ctgatataat 240
acaaaacagc acattgggag aagcagagat tgaacgtgag cgtggagtaa tccttagaga 300
gatgcaggaa gttgaaacca a 321
```

<210> 763

<211> 348

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 52, 66, 114, 127, 144, 152, 177, 200, 214, 261, 331

<223> n = A,T,C or G

<400> 763

```
tgagaaaaca taaagtaacc agcagatttc aatattaaaa agaagtgggt cntcctaaaa 60
aaggtnttag atcatagagt tgggattagg gtaggggata cctattaatc tggnctggaa 120
aaaaagngtg tggagaaggg gagntgtatt gntttctcac aagaggcaaa cttcagncaa 180
acaatgaaga gatagtaggn agggagatgt gtgntagacc aaagactttc tgattgctga 240
taataacaaa tttagcagct ntctacaagt caattaaaaat accattctct gagacatttt 300
cagagaggag ctaactaaca cccaccag nggaaaaatc attctaca 348
```

<210> 764

<211> 374

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 59, 111, 129, 132, 198, 204, 242, 288, 327
 <223> n = A,T,C or G

<400> 764
 agcnaagaag gaagctcctg cccctcctaa agctgaagcc aaagcgaagg ctttaaagnc 60
 caagaaggca gcgttgaaaag gtgtccacag ccacaaaaag aagaagatcc ncacgtcacc 120
 caccttccng cngccgaaga cactgcgact ccggagacag cccaaatata ctcggaagag 180
 cgctcccagg agaaacangc ttgnccacta tgctatcatc aagtttccgc tgaccactga 240
 gnetgccatg aagaagatag aagacaacaa cacacttggtg ttcattgngg atgttaaagc 300
 caacaagcac cagattaaac aggctgngaa gaagctgtat gacattgatg tggccaaggc 360
 caacaccctg attc 374

<210> 765
 <211> 288
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 181
 <223> n = A,T,C or G

<400> 765
 aaatacaata attctgttat tgataaaatt taaggcattt tcattgcctt ttgcagattt 60
 actcataact acctaacaag gaaagaaggc ataattattt cagattggat tatttattct 120
 aaaattaaat tcttcaacta tttattctaa gatgaattta atagtccatc aggaaattgg 180
 nttttataaa gcttatttta tgggcataaa atacaggaaa aggtaataat aaatgccaaa 240
 ccgtctcttt actttatgaa gccaaatatt tcctcagact tgggtttt 288

<210> 766
 <211> 424
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 337
 <223> n = A,T,C or G

<400> 766
 ttgtggttgt gcctgagggc tctgcttccg acactcatga acaggctatc ttgcggttgc 60
 aagtcaccaa tgttctgtct cagcctctga ctacaggccac tgttaaaacta gaacatgcta 120
 aatctgttgc ttccagagcc actgtcctcc agaagacatc cttcaccctt gtaggggatg 180
 tttttgaact aaatttcatg aacgtcaaat tttccagtgg ttattatgac ttccttgctg 240
 aagtgaagg tgacaaccgg tatattgcaa ataccgtaga gctcagagtc aagatctcca 300
 ctgaagttgg catcacaaat gttgatcttt ccaccngga taaggatcag agcattgcac 360
 ccaaaactac ccgggtgaca tacgcagcca aagccaaggc cacattcatc gcagacagcc 420
 acca 424

<210> 767
 <211> 302

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 203
<223> n = A,T,C or G

<400> 767
ggctttctca ataagcctca gctttctaag atctaacaag atagccaccg agatccttat 60
cgaaactcat tttaggcaaa tatgagtttt attgtccggt tacttgtttc agagtttgta 120
ttgtgattat caattaccac accatctccc atgaagaaag ggaacggtga agtactaagc 180
gctagaggaa gcagccaagt cgnttagtgg aagcatgatt ggtgccaggt tagcctctgc 240
aggatgtgga aacctccttc caggggaggt tcagtgaatt gtgtaggaga ggttgtctgt 300
gg 302

<210> 768
<211> 94
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 62, 63, 73, 86
<223> n = A,T,C or G

<400> 768
ctgatctaaa agaagttact gaggaagatt tgaataatca ctttaagtct ttgggaagca 60
gnnatttgaa atnttgaggt gacagncttt taag 94

<210> 769
<211> 69
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 36, 40, 53
<223> n = A,T,C or G

<400> 769
ctgcaagacg actccaaccc aacaacaacc agatgngctn cagcccagcc ggncttcagt 60
tccatattt 69

<210> 770
<211> 222
<212> DNA
<213> Homo sapiens

<400> 770
ctgaacgcaa accagccact ttaattaagc taagccctta ctagaccaat gggacttaaa 60
cccacaaaca cttagttaac agctaagcac cctaataaac tggcttcaat ctacttctcc 120
cgccgcggg aaaaaaggcg ggagaagccc cggcaggttt gaagctgctt cttcgaattt 180
gcaattcaat atgaaaatca cctcggagct ggtaaaaaga gg 222

<210> 771
 <211> 332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 262
 <223> n = A,T,C or G

<400> 771
 ctgcttttccc tcctatggct cccctggaac aggagggaga gccaaagggg cggccccagcc 60
 tggacagcgc ccgctcctgc ctgggtgcac acacggcggg cctgagctcc agcatctgag 120
 tttgggggta tgagaaacag gggagcagaa ggagaagaaa actgcctgtg ctgcaacacg 180
 tttcctcatt tattttttct ttctttttct ttttttcttt ttttggaggg agaggctccct 240
 gcaagggtccc ttcccgggca gnggagggat ggaaatgccg tcacagtagt agggactgga 300
 gcgtctacaa ggatggaggg gagctactca gg 332

<210> 772
 <211> 194
 <212> DNA
 <213> Homo sapiens

<400> 772
 aaaagaaaga tcaattatat ccattgcttaa caggatcagc aggagcttta taaatgactt 60
 tacagagact aataagggat ttgatctttc tttttttgtt atcgaggctt ttgaaatgtg 120
 gaacttgtgt gttctgcttt atatgttata ttcaatatct tttcagatgc agtctatatt 180
 ttatgctgag tttt 194

<210> 773
 <211> 272
 <212> DNA
 <213> Homo sapiens

<400> 773
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctaggaagca gataaggaaa atgattatga gggcgtgatc atgaaagggtg 240
 ataagctctt ctatgatagg ggaagtagcg tc 272

<210> 774
 <211> 314
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 18, 42, 45, 94, 95, 114, 117, 125, 143, 154, 198, 207, 222,
 245, 258, 287
 <223> n = A,T,C or G

<400> 774

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 147, 191, 228, 231, 233, 280, 366, 384
<223> n = A,T,C or G

<400> 778
ccaaaagaag taagacagct tgctgaagat ttcttgaag actatattca tataaacatt 60
ggtgcacttg aactgagtgc aaaccacaac attcttcaga ttgtggatgt gtgtcatgac 120
gtagaaaagg atgaaaaact tattcgncta atggaagaga tcatgagtga gaaggagaat 180
aaaaccattg nttttgtgga aaccaaaaga agatgtgatg agcttacnca nanaaatgag 240
gagagatggg tggcctgccca tgggtatcca tggtgacaan agtcaacaag agcgtgactg 300
ggttctaaat gaattcaaac atggaaaagc tcctattctg attgctacag atgtggcctc 360
cagagnctga gatgtggaag atngaaatt tgtcatcaat tatgactacc ctaactcctc 420
a 421

<210> 779
<211> 330
<212> DNA
<213> Homo sapiens

<400> 779
ctgaactttc cgcttacgct gccagagct gccagggtga gactgagaat tcgagttttg 60
tttcttcctt ggggttgtat ctgcagcctt ttctccctgg gactccctgt ctgctgccaa 120
tggagttgaa gaactggaat gatgacacag ctctcttctt cttattttct ttgctggcct 180
ctccggtgtc tgggagcggg aggaggcttg ggctagagaa gggatgatgaa ctggggccat 240
ttctcttcca gagctgtgag atgcctcgag tggagctgta ggaactggta atggcattgc 300
ggctggagct agggatgccca cttgcgtaag 330

<210> 780
<211> 279
<212> DNA
<213> Homo sapiens

<400> 780
gagaggtaga gtttttttctg tgatagtggg tcaactggata agtggcgcttg gcttgccatg 60
attgtgaggg gtaggagtca ggtagttagt attaggaggg ggggtgttag ggggtcggag 120
gaaaagggtg gggaacagct aaatagggtt ttgttgattt ggtaaaaaa tagtagaggg 180
atgatgctaa taattaggct gtgggtggtt gtgttgattc aaattatgtg ttttttggaa 240
agtcattgtc gtggtagtaa tataattgtt gggacgatt 279

<210> 781
<211> 323
<212> DNA
<213> Homo sapiens

<400> 781
ttgatcttct gcaggaagggt gcagcttttc catatcagct caaccacgcc gccagtccat 60
tcttaaggaa ctgccgacta ggactgatga tgcatttttag ctttgagctt ttgggggtta 120
ttctaccaac aaacagtcca ttggaaagaa aacagtcctt ggaattaaca gattagaatg 180
ttcacactgg ttaattctttt ttaacaatg agcatgaagg tagcagaagc tgggtgtgtt 240
ccagatgggt cttotaacca aactaatttt tcaactgtga caagcgaggc aagggttgca 300

ctggaccaaa ggctgaggct tgg

323

<210> 782

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 47, 69, 195, 262

<223> n = A,T,C or G

<400> 782

```
ttctagcttt gccctcactc cccggaaaaa ctgacactga cacaggngct ctttccttgc 60
ccctttagnt ggtacctcag tggggagggt tccctaccaa gaatgagttc ctgaaaccca 120
gggccagaga caaggacaac ttaggggaag acggggtttt cgggtggagcc aggggcaaat 180
cttaatggga ccagnggggg ataccccaga gcccatggcc tgactgcaca gcctgcctgg 240
aggatgggtg cgcagttctg cncct                                     264
```

<210> 783

<211> 159

<212> DNA

<213> Homo sapiens

<400> 783

```
ctgtgtgaag gcgacagtgg tgcaggtott cctgtggact agacgtccca gtcttgccct 60
tcccttgata atgcagtaag ggacccccat ttacgacac agggcaggca agaagacaac 120
cagctcgatg ggatccacgt cgtgtgcaat caccaccag                                     159
```

<210> 784

<211> 128

<212> DNA

<213> Homo sapiens

<400> 784

```
ctcggccctc ttacaccatt ttgtttgatt gtctagtccc tgtttctttt tctttctaatt 60
ccttattcat ttaagcaaaa ccatacatta tcttttccag tcctttcttg tattcttact 120
gttttttt                                     128
```

<210> 785

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 142, 323, 325, 330

<223> n = A,T,C or G

<400> 785

```
ctgggctgat gctggaactc gtagaagtac acaggggccc gggaacactg aaaatgtgct 60
acttgagtg cagggatcac aaacatggag tccgccatca tctcctggaa ctgcgcttgg 120
agggctctgg gatccccatt gnccccattg tactcctccc tcagcaggtc accaaatgta 180
ggaggcaaca tcagcagcgt taacattttc tgcagagcag cctgggaggc ctctctgtcc 240
```

atttccttct gggatcata gatcctcatg accttgggga tgagccagcc gaattcattg 300
 ttgttgacac caacaatgct agnagnacagn ctgaaagtcg gcagag 346

<210> 786
 <211> 118
 <212> DNA
 <213> Homo sapiens

<400> 786
 ctgcactgat ctgtggggag agttttacag acttttcatt ccagcctcct ccattgacag 60
 tgaggtcttc attcaatcct gaagaaacct gaagtgtaga atctcctttt ccagattt 118

<210> 787
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 787
 cactcattca tcgacctccc caccatcc aacatctccg catgatgaaa cttcggctca 60
 ctcttggcg cctgcctgat cctccaaatc accacaggac tttcctagc catgcactac 120
 tcaccagacg cctcaaccgc cttttcatca atcgcccaca tcaactcgaga cgtaaattat 180
 ggctgaatca tccgtacct tcacgccaat ggcgccctcaa tattctttat ctgcctcttc 240
 ctacacatcg ggcgagg 257

<210> 788
 <211> 155
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 15, 22, 34, 38, 45, 69, 73, 127
 <223> n = A,T,C or G

<400> 788
 cgcaagagcc tatgnatgtg gnateccagaa ctcngtgngc gcaanccgca gagaccaggt 60
 caccctggnt gtnccttatg ggccggacac ccccatcatt tccccccag actcgtctta 120
 cctttcngga gcgaacctca acctctcctg ccact 155

<210> 789
 <211> 382
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 203, 225
 <223> n = A,T,C or G

<400> 789
 cctaagtaaa tgaagagctg taccatattc atgtattgga agacaacatt gtaaagatga 60
 catggtttac cagattaatc tataaattca atacaaatcc aatcaaaatt tcaatgctct 120
 tgggtttgtt tgatttataa attgttggtc taattctaga agtaatatgg aggaacagtt 180
 ggctaagaat agccaagaca ctncaggaa gaacaatttt gtggngatac tggagacaga 240

<210> 793
 <211> 328
 <212> DNA
 <213> Homo sapiens

<400> 793
 aaacaagtca tttttcttga tcgttgtgga aggtttggag ccttagaggt atgtcagaaa 60
 aaatatgttg gtattctccc ttgggtaggg ggaaatgacc tttttacaag agagtgaat 120
 ttaggtcagg gaaaagacca agggccagca ttgctacttt tgtgtgtgtg tgtgggtttt 180
 gttttgtttt tttggttggc cggttgtttt cgttgttgtt aacaaaggaa tgagaatatg 240
 taatacttaa ataaacatga ccacgaagaa tgctgttctg atttactaga gaatgttccc 300
 aatttgaatt tagggtgatt ttacctgc 328

<210> 794
 <211> 290
 <212> DNA
 <213> Homo sapiens

<400> 794
 ccagcgagca catgaagcgg ttcttcatga actttgtggt tgggcaggat ccgggctcag 60
 acgcgcctt ccacttcaat ccgcggtttg acggctggga caaggtgggtc ttcaacacgt 120
 tgcaggggcg gaagtggggc agcgaggaga ggaagaggag catgcccttc aaaaaggggtg 180
 ccgcctttga gctggtcttc atagtcctgg ctgagcacta caaggtgggtg gtaaattggaa 240
 atcccttcta tgagtacggg caccggcttc ccctacagat ggtcaccac 290

<210> 795
 <211> 343
 <212> DNA
 <213> Homo sapiens

<400> 795
 aaaatcaaag aaatccttgt tttgaaaatt ggatcttaat ctcaaaattg tagaacttgg 60
 ctgagaccat tgctttcatt ttgaaaatga acttcaactc cagaaagacc agtgtgtgct 120
 ctgccaaata aatttctgag tcacagtctc actaggaatg tgcaaatcaa agcatatgtt 180
 ggtgtaaaatt cttttgaagt ccttgccaag ataataatg gcatttacat ttgctttttt 240
 ctttaataaaa aattccacca ttttcacttt tcttcgactc acagcaagta acagtggctg 300
 atattcattc ttgctgcatt cttcaatatt tgtaccatgt gaa 343

<210> 796
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 796
 tggcgggccc ctgaataagc ttccaaaatg atgccacac cagttattct attgaaagag 60
 gggactgata gctcccaagg catccccag cttgtgagta acatcagtg cgtccagggtg 120
 attgctgagg ctgtaagaac taccctgggt ccccgtagga tggacaagct tattgtagat 180
 ggcagaggca aagcaacaat ttctaataat ggggccacaa ttctgaaact tcttgatgtt 240
 gtccatcctg cagcaaaagac tttggtagac attgccaat cccaagatgc tgaggtgggt 300
 gatggcacca cctcagtgac cttgctgggt gcagagtttc tgaagcagac ctgc 354

<210> 797
 <211> 309

<212> DNA
<213> Homo sapiens

<400> 797
ctgtgccgctc tgcctgagcc catggatgct ttctcaatcc taggctgggt actgtgtaag 60
cgtttttggag tacggggcct tgagcgggtg ggagctgtgt gttgaagtac agaggggaggt 120
tgggggtgggt cagagccgag ttaagagatt ttctttgttg ctggaccctt tcttgaaggt 180
agacgtcccc caccgggaga gacgtcgcg tgtggcctga agtggcgcaa gcttgctttg 240
taaataatctg tggccccgat gtagtgccca gaacgtttgt gcgaggcagc tctgcgcccc 300
ggttccagc 309

<210> 798
<211> 315
<212> DNA
<213> Homo sapiens

<400> 798
ccaccagcat tgacgttctt gccatccaga agagctgaca gtgtcagttt aatacctggc 60
tttagagtct gagtgtatcc taaacctatc aggctggagt tgttcacttt agccgagaag 120
caggcgtcag ggtcaatctg atacttggct gctattccga agcgcgtgtt actgtttcct 180
gctgtccagg caagattgac agcgggtctcc aacttcttgt tcactttctg gtaaattggag 240
ccgccaact ctgtcccgtc attcacatta gtgtgaagct ggaattcatc agtcttgtag 300
ccaactgcaa agttg 315

<210> 799
<211> 157
<212> DNA
<213> Homo sapiens

<400> 799
ctgtgatttc ctccatagtt ggctttctggg tcaggccata ggcaatattt tcttgaagac 60
ttcttccaaa tacctgtggc tcttgtccca ctgcagccac ctgcctgtgc aggtagcggg 120
gctcatattg gggaaggggc ttcccatcca acagcag 157

<210> 800
<211> 357
<212> DNA
<213> Homo sapiens

<400> 800
aaactcagtg aacccaaacc tatttttttc aatctgaata ttgctgcagc aaaaccaact 60
ccaccaaaaa gccgggtaac attaacaaaa gaattccctg tatcatctgg atctcaacat 120
cggaaaaaag aagcggatag tgtttatgga gaatgggttc ctgtcgagaa aaatggtgaa 180
gaaaacaaag atgatgataa tgttttcagc agcaatttgc cctcagagcc tgtggacatc 240
tctacagcaa tgagtgaacg ggcacttgct cagaaaagac tcagtgaagaa tgcatttgat 300
cttgaagcca tgagcatggt aaatagagct caggaaagga ttgatgcctg ggctcag 357

<210> 801
<211> 359
<212> DNA
<213> Homo sapiens

<400> 801
cctagggggc atatcaaggg tttaatagac tgggggaatg ggcaacagaa ctggctacct 60

```

tagaggctct ggaatgcccc ccacccatcc acccaccaat ggaaggaaag tcaggcatcg 120
cctaaaagga gtggtcctta tctagcccca agtctggagc agaaagggca ggtccattct 180
ggcccaagtg acattgttag atcctgtccc ctcccccaat cactgctgct tgccaggggtg 240
cctcttcaca gttcccatgt ggcagcagta gtggcagagg cagaagtgga cttattgtag 300
attgcagtac agatacatgg acacaatcat ggcagccagc tcgaggcccc caattccag 359

```

```

<210> 802
<211> 207
<212> DNA
<213> Homo sapiens

```

```

<400> 802
ccaggctcgg gcaccacctc aatcacatcc atgatcaaga tccgccctcg gcacgtgacc 60
tcctccccct gcatgaggca ggtcccggcg gccacgtagc ctttgaggcc cgacacggtc 120
tcctcactgc gcagagacac tgtcttcatg caggtcacat gctcccactc ctgcagctcg 180
atcctggcat tgggaatagc ctcccag 207

```

```

<210> 803
<211> 311
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> 88, 94, 188, 219, 274
<223> n = A,T,C or G

```

```

<400> 803
cctatttcac tgetgtgtag cctcagtgcc taacatgggt gccaaataaa tattcgtaga 60
attacactga attgtaaaaa ccattcgntt ttgnntacaa ttgccaaaaa tctcaaaagg 120
ccctgtatatt atgtaattct ttgaaattat tatattattt tgattttctca gttattgact 180
ggctggngnt gacttagtac ataagtactc aatattatna aaacctcaaa taattgactt 240
gattttacac aacatccttc ccttttctac aagntaattt ttttacaat catttggggt 300
atctcctaaa t 311

```

```

<210> 804
<211> 202
<212> DNA
<213> Homo sapiens

```

```

<400> 804
ctgttcggat ttaacttcat cttctggctt gccgggattg ctgtccttgc cattggacta 60
tggtccgat tcgactctca gaccaagagc atcttcgagc aagaaactaa taataataat 120
tcagcttct acacaggagt ctatattctg atcggagccg gcgccctcat gatgctggtg 180
ggcttcctgg gctgctgcgg gg 202

```

```

<210> 805
<211> 238
<212> DNA
<213> Homo sapiens

```

```

<400> 805
ccaaccagtc tggctggagt gatgcattcc tggcccagca cacgatgctt accctggatc 60
ccaacgtcac cgggtgtcttc ctgggaccct acccctttgg catcgatcct atttgagacc 120

```

tggtctgcaa ccacttgagc ttctctcaact ctttcaagat gaagatgtcc gtcacccctgg 180
gcgtcgtgca catggccctt ggggtggtcc tcggagtctt caaccacgtg cacttttg 238

<210> 806
<211> 325
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 129, 141, 291
<223> n = A,T,C or G

<400> 806
cctgaggtct gcggaaggtg ggaggaggca gacgccctgc gtggcccatg gtcggggcgt 60
ccacgccgag gccggcaaca aacgacagta tctcgattc cttttttttt taatttttta 120
tactttggng ttctacttcg ngctctgaat actgaataac catgaatgac tgaatagttt 180
agtccagatt ttacagagg atacatctat ttttatcatt atttggggtt tgaaaaattt 240
ttttttacac cttctaattt ctttatttct caaagcagat aattcttctg ngtgaaaatg 300
ttttcttttt ttaatttaag gttta 325

<210> 807
<211> 289
<212> DNA
<213> Homo sapiens

<400> 807
cctaaaggga actgtcttct gtcgagaagt aaaggaaact tcatgaagga tgtagaagct 60
tagctgcctc agagaagaga gaacctgaag atctgaggca agctggacag gagaggtaga 120
tatttgttga tggaagaatt caagtttata atcaattccc acttagcacc tactgtgtgc 180
taggaacttg aatgtgtatg ttgacaagt cctgcttggc ctgatgggtg ggagaaggaa 240
cctgagcctg gctgagatgg ctaggcggag ggctttgaag tccaagcag 289

<210> 808
<211> 376
<212> DNA
<213> Homo sapiens

<400> 808
aaacttaatt aaagagcttg acaagctctg catattcatg tgtcataagc agtatgtgac 60
aaaaaaaaact gtgcagtatg taccctctca cgaaatttag tttggcaggg aaaacaagat 120
gcacatgtta ttataaatta gaaaatggaa gagaagtaga aataaatcca tgagtattat 180
atataagtaa cagaacaaaa acaacaggat aatgtatccc ccccaaaggc ccagtagaga 240
ccatcaaagc tcattctggg ggtagtcaag gagggagtgg agggagaaaa agaacgcaga 300
ccttcaacca ctaatgaaag aactgaaaca tctgtatgta gaaaaaagggt aaaatcaact 360
cactatcatc ttcagc 376

<210> 809
<211> 243
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> 19, 162, 174, 175, 182, 193, 198

<223> n = A,T,C or G

<400> 809

```
ccatctcatt ttcaaagtnc agagctacat aacacagttt ctcccttgatg tcccggacaa 60
tctcacgctc agcagtagta acgaaggaat agccacgctc agtcaggatc ttcattgaggt 120
agtcagtgag atctcggcca gccagatcca gacgcatgat gncatggggc aagnnatagc 180
cntcatagat ggngacantg tgggtgacac catctccaga gtccagcacg atgccagttg 240
tgc 243
```

<210> 810

<211> 274

<212> DNA

<213> Homo sapiens

<400> 810

```
aaaaaacacg tttgttatta ccaaaaagag acgtcttttag gtaaaaataa taaaaacccc 60
atgctgcatt gataatgcag atagttctat ttatctggtc aacgggcaaa aagcaagcac 120
tttaggtctt cagctccaat cttttgttca tttcttattg ctggaatttc atatttcttc 180
ttgttgatg actaaaccgg atgatggtag agatggtaag ccggcattta ctcagccccg 240
cctgctcag cctcgggagc ggacgaattc tcag 274
```

<210> 811

<211> 205

<212> DNA

<213> Homo sapiens

<400> 811

```
ctggtggaga tcatcaaggt gctgggaaca ccaaccggg aacaaatccg agagatgaac 60
cccaactaca cggagttcaa gttccctcag attaaagctc acccctggac aaaggtgttc 120
aaatctcgaa cgcgcacaga ggccatcgcg ctctgctcta gcctgctgga gtacacccca 180
tcctcaaggc tctccccact agagg 205
```

<210> 812

<211> 199

<212> DNA

<213> Homo sapiens

<400> 812

```
aaatattgct gctgctttgt agatgatgag aagaaatggt aaagtgcttt ctaaaaggaa 60
attttttcac ctttgaggga gaatatatta gagttgtggg taatttttca cagccaccta 120
tgtacatact aattacccat tggatactta tatctaaaag tctcatgctg aagtatagtt 180
tttgggaaag aatgatttt 199
```

<210> 813

<211> 334

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 40

<223> n = A,T,C or G

<400> 813

```
cctcaccgcc gatgcaagga tagtcatcaa cagggcccgn gtggagtgcc agagccaccg 60
gctgactgtg gaggaccggg tcaactgtgga gtacatcacc cgctacatcg ccagtctgaa 120
gcagcgttat acgcagagca atgggcgcag gccgtttggc atctctgccc tcatcggtgg 180
tttcgacttt gatggcactc ctaggctcta tcagactgac ccctcgggca cataccatgc 240
ctggaaggcc aatgccatag gccgggggtgc caagtcagtg cgtgagttcc tggagaagaa 300
ctatactgac gaagccattg ctctgcgacc tgcc 334
```

<210> 814

<211> 358

<212> DNA

<213> Homo sapiens

<400> 814

```
ctgaagcttg gaactttctg acaagaaaag gcctggtttc tgggtggcctc tatgaatccc 60
atgtagggtg cagaccgtac tccatccctc cctgtgagca ccacgtcaac ggctcccggc 120
ccccatgcac gggggaggga gataccccc aagtgtagcaa gatctgtgag cctggctaca 180
gcccgcaccta caaacaggac aagcactacg gatacaattc ctacagcgtc tccaatagcg 240
agaaggacat catggccgag atctacaaaa acggccccgt ggaggagct ttctctgtgt 300
attcggactt cctgctctac aagtcaggag tgtaccaaca cgtcaccgga gagatgat 358
```

<210> 815

<211> 203

<212> DNA

<213> Homo sapiens

<400> 815

```
ctggaagccg gactcagcca ggggtgcgcta ctaccagagc ctgcaggctc atctcaaggt 60
ggacgtgtac agacgtctcc acaagcctct gcccaagggg accatgatgg agacgtgtgc 120
ccgtacaag ttctacctgg ctttcgagaa ctccctgcac cccgactaca tcaccgagaa 180
gctgtggagg aacgccttgg agg 203
```

<210> 816

<211> 92

<212> DNA

<213> Homo sapiens

<400> 816

```
cggccgcaga agcgagatga cgaagggaac gtcacgtttt ggaaagcgtc gcaataagac 60
gcacacgttg tgccgcccgt gtggtctetaa gg 92
```

<210> 817

<211> 367

<212> DNA

<213> Homo sapiens

<400> 817

```
ttggaggact atttgaattt tgcaaaactat ctcttgtggg tttttacacc actaatactt 60
ttaatacttc cttactttac tatctttctt ctctacctta ctattatattt cttacacatt 120
tataagagaa agaatgtatt gaaagaagcc tactctcata atttatggga tgggtgcaagg 180
aaaacagtgg caactctgtg ggatggacat gcagccgttt ggcatgggta tgaagtcat 240
ggaatggaaa aaataccaga agatggacca gcacttataa ttttttatca tggagctatt 300
cctatagatt tttactatct catggctaaa atatttatac acaaaggcag aacttgccga 360
gtagtag 367
```

<210> 818
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 818
 aaataaaaagt attacgtaac tttgaaattt gtataaaaatt aaaagatagt aaaaacaact 60
 attctaacag aattcaaaac ctgttatgct tcagtggaga gattattcaa gataagtcg 120
 tgggaaattg ggagtacatt tctactggca aagttagtga taactatgca cttctgacaa 180
 aatgtgaaat ggggggtatg ggcgtgtcat atcatcatgg tgcagatacg tggatgtgtg 240
 cttccaaaca atggcaacct aactgactgc tggaaaccata caaaatacct gaaactactc 300
 agaaagaagg tgaaaattgc atgcaaaaat tatttgaaaa atattgagct aacacaacat 360
 gaatttggaa ttataagtga g 381

<210> 819
 <211> 109
 <212> DNA
 <213> Homo sapiens

<400> 819
 ccattggccgc ttccagacca tggaggagaa gaaagcattc atgggaccac tgaagaaaga 60
 ccgaattgca aaggaagaag gagcttaatg ccaggaacag attttgcag 109

<210> 820
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 110, 134, 164, 185, 235, 291, 304
 <223> n = A,T,C or G

<400> 820
 ctggaaaaac ctttcagcga accattttcag ctccaggacac gtttagcgtat gccacagctt 60
 tgttgaatga aaaagagcaa tcaggaagca gtaatgggtc ggagagtagn cctgccaatg 120
 agaacggaga cagncatcta cagcagggtt cagaatctcc catnatgatt ggtgagttga 180
 gaagngacct tgatgatgtt gatccctaga ggaacatgcc cagcctgaga ggagncaaga 240
 cacaatactg gatgctcagc accttctttg gaatcagaat ctccaaccct ntggaagagc 300
 ctgnagatt 309

<210> 821
 <211> 236
 <212> DNA
 <213> Homo sapiens

<400> 821
 catccgcttc ctgaatgctg agaatgcaca gaaattcaaa acaaagtittg aagaatgcag 60
 gaaagagatc gaagagagag aaaagaaagc aggatcaggc aaaaatgatc atgccgaaaa 120
 agtggcggaa aagctagaag ctctctcggt gaaggaggag accaaggagg atgctgagga 180
 gaagcaataa atcgtcttat tttattttct tttcctctct ttcctttcct tttttt 236

<210> 822

<211> 388
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 117, 360
 <223> n = A,T,C or G

<400> 822
 gcgaggcaag atggagttag tgcaggtcct gaaacgcggg ctgcagcaga tcaccggcca 60
 cggcgggtctc cgaggctatc tacgggtttt tttcaggaca aatgatgcga aggttgntac 120
 attagtgggg gaagacaaat atggaaacaa atactatgaa gacaacaagc aatttttttg 180
 ccgtcacoga tgggttgtat atactactga aatgaatggc aaaaacacat tctgggatgt 240
 ggatggaagc atgggtgcctc ctgaatggca tcgttggctt cacagtatga ctgatgatcc 300
 tccaacaaca aaaccactta ctgctcgtaa attcatttgg acgaaccata aattcaacgn 360
 gactggcacc ccagaacaat atgtacct 388

<210> 823
 <211> 353
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 177, 297
 <223> n = A,T,C or G

<400> 823
 aaaagtttgg atctttttct cagcaggtat cagttgtaaa taatgaatta ggggccaaaa 60
 tgcaaaacga aaaatgaagc agctacatgt agttagtaat ttctagtgtg aactgtaatt 120
 gaatatgttg gtttcatatg tattatttta tattgtactt ttttcattat tgatggnttg 180
 gactttaata agagaaattc catagttttt aatatcccag aagtgagaca atttgaacag 240
 tgtattctag aaaacaatac actaactgaa cagaagtgaa tgcttatata tattatnata 300
 gccttaaaccc tttttcctct aatgccttaa ctgtcaaata attataacct ttt 353

<210> 824
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 186, 223, 226, 249
 <223> n = A,T,C or G

<400> 824
 ctgggtgcag gcgggctgag tccgaaaaga gagtcagcaa agggagatgg ggtggggccg 60
 ttttatagga ttagggaagg taatggaaaa ttacagtcaa aggggggttg ttctctggtg 120
 ggcaggtgtg gatctcacia agtacactct caagggtggg gagaattaca aaggaccttc 180
 ttaagngtgg gggagattac aaagtacatt tatcagttag ggnggngcag gaacaaatca 240
 caatgttgna atgtcatcag ttaa 264

<210> 825

<211> 361
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 210
 <223> n = A,T,C or G

<400> 825
 aaaatccagt ttgttggttaa caaaacctac tgctgggtgg ttttgaatat attactttta 60
 ggcatgatct cccaatgtg tttttactcc ttttccggct tctaggacag aggtatgtag 120
 tcaaagaatc ctatgggtga tctgaattgg gtttcagcta ctgtacctgg tccttgtgaa 180
 ttaaaaaaat aaagtcacaa aaaccataatn acaaaacaaa ttaaaataaa tagacaaaat 240
 gaagctgtct ccagaccttc tgcattgaca cacaggtttg aagtcaacca aagcactcat 300
 gctaattctgg atgggaacac tagggagaca gaaaccccag tatgaaacca tgtactttgag 360
 c 361

<210> 826
 <211> 195
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 26, 32, 44, 162, 179
 <223> n = A,T,C or G

<400> 826
 cccagaagat gacgcagccc tctatnggcc cnaatcttct tcantcgctc caggtcttca 60
 cggagcttgt tgtccagacc attggctagg acctggctgt attttccatc ctttaccatc 120
 ttctgtctgt tcaagaacca gtctgggac ttgtactggc gnggattctg cataatggng 180
 atcacacgtt ccacc 195

<210> 827
 <211> 227
 <212> DNA
 <213> Homo sapiens

<400> 827
 caacggctct tcacagacca cctccttttc taaggaaaat ggctggtatg acgtgatgag 60
 tgatacatat tttgattcag gttttgtctc taaagtagca cttcttacca cagagatcaa 120
 ggacttgggt aatattatgc ttttttcctt caatggatta attttcttaa tataaaaaa 180
 gatgaatacc aggctaagca ctagaagag tagtaaagca gcaacaa 227

<210> 828
 <211> 242
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 65, 214, 222
 <223> n = A,T,C or G

<400> 828
 atgtccgggg agtcagccag gagcttgggg aagggagcg cgtcccggg gccgggtcccg 60
 gaggntcgat cgcctctac agcatgaggt tctgcccgtt tgctgagagg acgcgtctag 120
 tcctgaaggc caaggggaatc aggcataag tcatcaatat caacctgaaa aataagcctg 180
 agtgggttctt taagaaaaat ccctttgggtc tggngccagt tntggaaaac agtcagggtc 240
 ag 242

<210> 829
 <211> 374
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 339
 <223> n = A,T,C or G

<400> 829
 gaggtcctga aaaggaatac acttccatat catgccatct cttacactgg cattccttgc 60
 ctatgcatgt gcatggcttg ccctgggtta gcttggaac tgattgaaag tcagagagat 120
 cactggcttt gagacttgct tgggggactt gggtagcgct agaggagtct tccttcttac 180
 tctctgatgg gagccttgga acagaagttc tcaaaggctc aacgactgcc cctgcgtgat 240
 tagcatcgag agaagtagag ctttctcctg cactgaactc tttaggggat gaaattccca 300
 gccactgct gccatcagggt gagtcagtct ggcttttgng cttgagttga ctgctggaag 360
 aagacgctat tgta 374

<210> 830
 <211> 325
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 239, 313
 <223> n = A,T,C or G

<400> 830
 gttcaaagca gaaaatcctg agcctctagt gtttggtgtg aagtacaatg caagttcttt 60
 tgccaagttc acgcttattg tgacagatgt gaatgaagca cctcaattct cccaacacgt 120
 attccaagcg aaagtcagtg aggatgtagc tataggcact aaagtgggca atgtgactgc 180
 caaggatcca gaaggtctgg acataagtta ttcactgagg ggagacacaa gaggttggtg 240
 taaaattgac cactgactg gtgagatctt tagtgtggct ccattggaca gagaagccgg 300
 aagtccatat cgngtacaag tgggtg 325

<210> 831
 <211> 85
 <212> DNA
 <213> Homo sapiens

<400> 831
 tggtaaccggg cccccccct gagcgatgga gcgtgggtag ggagggtcca cagtgtccac 60
 tcgccgtgtg cgaaggttga ctgg 85

<210> 832
 <211> 202
 <212> DNA
 <213> Homo sapiens

<400> 832
 aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctggggtt acccagccgt 60
 tgtggccctt gaggggtgcca cgaaggggtca tctgctcagt catggcggcg gcgagagcgt 120
 gtgtcgtctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc 180
 tcctgccgtc gacgcggccg cg 202

<210> 833
 <211> 503
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 434, 477, 495
 <223> n = A,T,C or G

<400> 833
 ccggctggtc ctgcatcgcc atctgctggc cgcgcggcac ggccggttcc tggagccagc 60
 aggagtcgga ggctgcaggg cttgaaggcc tcttcaccgt gccctccagg gaggcctagct 120
 gccgaagtat tcctgctgga acttctggaa gtcttctctg gtgaacacgg tgcctctcagc 180
 cttcttcttc ttggtcttgg ccacaggccg gtcacaggcc ttgcggcccc ggttctggcg 240
 caaaatctgc tggctcacag actcagccac ggtgcttctc gtcctgggtca gaaacttcag 300
 gtttactctg aggtgggtctc gacactctcg ctcccggtac tcgtccagtg ccgacttggg 360
 cacccttccc ttggccgagt tccgcagttt ctgggcctga attgccttcg tcttccgggg 420
 ccgtttcacc ggancacctc tcggcttggc ctgacctgga gggccccggg gggcctngga 480
 cgccgccagc agctncaggc ccc 503

<210> 834
 <211> 208
 <212> DNA
 <213> Homo sapiens

<400> 834
 atccagagac aatctgccgg ttgtcagagg agaaggccac actcagcaca tccttggtat 60
 ggcccacaaa tcgcctcgtg gtgggtgccc ttgtgagatc ccagaggcgc aggggttccat 120
 cccaggagcc tgagagggga aactggccat ctgaggagat aaccacatca ctaacaaagt 180
 gggagtgacc ccgcagagca cgctgttg 208

<210> 835
 <211> 210
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 88
 <223> n = A,T,C or G

<400> 835

```

tgatgtgggc gattgatgaa aaggcgggtt aggcgtctgg tgagtagtgc atggctagga 60
atagtcctgt ggtgatttgg aggatcangc aggcgccaag gagtgagccg aagtttcatc 120
atgcggagat gttggatggg gtggggaggt cgatgaatga gtggttaatt aattttatta 180
gggggttaat ttgcggtcg acgcggccgc                                     210

```

```

<210> 836
<211> 426
<212> DNA
<213> Homo sapiens

```

```

<400> 836
cgcccgccac gctgggtttt catcttcagg agacgctcgt agccctcgcg cttctcctcg 60
gccaattcgc ggaagaagtg gctcacgcct tccagagcca catcatcgcg gtcgaaatag 120
aagcccagag agaggtaggt gtaggaggcc tgcaggtaga aattgaccag gctggtgacg 180
gctgcctcca cgtcggttga ataattctga cgaatctggg agctcatggg tggttggcaa 240
gaaggagcta accacaaaaa cgggtgctggc aggtcccaga agcaggagat ggccgagaag 300
atggtcccgg aggttgcaag cggagaggaa atcggagggc ggtcggaggc tggaagagag 360
tccccggatc tgttcogtcc aaacactgtt gaagcaagag acagacccgc ggtcgacgcg 420
gccgcg                                     426

```

```

<210> 837
<211> 134
<212> DNA
<213> Homo sapiens

```

```

<400> 837
ccagggccgt gggccgaccc cggcggggcc gatccgaggg cctcactaaa ccatccaatc 60
ggtagtagcg acgggcggtg tgtacaaagg gcagggactt aatcaacgca agcttatgac 120
ccgcacttac tggg                                     134

```

```

<210> 838
<211> 538
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 480
<223> n = A,T,C or G

```

```

<400> 838
ggcgtcctgg tgettaccac ctggaaactg gtgaggtggt gggagaactc ctggtggacc 60
ctagtggaaag ccttccagta atttcttgaa gctgagcgct caggtgagta gggcgacatc 120
tggtggcccg ttgttgaagg tcattgcaga gaggaaggaa gccgaggagg ggagcctgca 180
gtgagggcgt cctgggggtt tccggttctc accacccttg ggccacgccg tctagtccac 240
acctgaggag ttggtcagggt agaaggggag gatgaccgtg cggaagccgt tgaagtggcc 300
tgccgggcag gggaaggagg aggtgctctt cgagctgttg gtgtccaggg cactgggaat 360
cgcagccttc cagccctoga aatcggtgac gtctgccacg aagagccctt cgcagagcat 420
cagggccttg ttttcgtagg caatggtgag atctgagccg ccagacttgg tgaggcccan 480
gacagggagc tcgtccgagg agcaggagaa gccgtagtct cagcagctct ggatggtg 538

```

```

<210> 839
<211> 351
<212> DNA

```

<213> Homo sapiens

<400> 839

```
aaggcggcaa cgggtggtgaa agatatagca ggcttgggtc ttgtacagcg gatgctcgtg 60
aagagggggc gagcggtaga accttgggtc cttgtagccg cgggtcccagg gcggaagat 120
cggccgcgcc agccagggca cgaagtgcac cttccccgca aaggtgatgg gctccagtcc 180
agggatctcg taccacctat ccaggggagg aggtccgac ttccgcgtgg agcgacgcc 240
ccactcatac gccccgcgtc tcggggcccc gaagccccca aggccgagct gcccggagcc 300
agctagcgcc cgccttgccg gcccggacgc caatgccata ccgatctgat a 351
```

<210> 840

<211> 574

<212> DNA

<213> Homo sapiens

<400> 840

```
tggcctgcaa ggccgcggac agggcgagca ccgagtcgta cattttgcag ctcacatcc 60
ccgtgctctg cgtgacgcag tccatccaca gcccttgta catggcctgg gccgtgatga 120
tgttgtcacc cgcataggag ctcatctgcc actgcgggat ggcggtgcag gccaccagac 180
ccaccagcc cagcagggcc atggagaagc ccagcaactg caggcccgaa ttggccattt 240
ccgccctcag aaaacactgg gggcgccggg cgggagacc tacagtaaaa caaacgacac 300
ttggggggca gcccacaaa agaaaacttg aggtggagtt ttccggtcac ccaaagagac 360
aaaaagggtt tgggccaggt gaatgcaaat cttgtcacca aactacacac aaatcgaccc 420
ctccagtga gcatggcct cgcggcacag ggagtaggat acgccgggag ggtggttcca 480
gacaaaattg gtggtccccg aaggccaggc ggttccctcc ggcgctctcg gcgaccctag 540
gcaaacaaaa ggtggagggg ccgtctgggc gcgt 574
```

<210> 841

<211> 195

<212> DNA

<213> Homo sapiens

<400> 841

```
gaccagggg cacaggctcc cagatgatag cccctctctg aatgagcacc caggcaacac 60
agtccggggc tgtgtgtagc aaacctgtca gcagctgcct cctgggacaa ccacccctt 120
acatgctatc tatctaccag acaaatgaaa gctcttctta cccatctcc caggcaccac 180
ccagcaaggg ctctg 195
```

<210> 842

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 85, 87, 89, 101, 127, 138, 139, 147, 149, 150, 191

<223> n = A,T,C or G

<400> 842

```
cggccgccct tttttttttt ttttcgttga aaaccaataa tttatcaaaa cgctgcgtgt 60
gtatgtgggg gggaggggtg cacancncnc agggcagcgg ngggcgacg cacaggcagg 120
aaacgnggcc cggaaagngg gggcggnann ttgccactgg ctggccatgc gggcgggcag 180
gctaaacatt nttgcgcgcg aggcgca 207
```

<210> 843
 <211> 62
 <212> DNA
 <213> Homo sapiens

<400> 843
 cgatggagcg tgggtaggga ggggtccacag tgtccactcg ccgtgtgcga aggttgactc 60
 gg 62

<210> 844
 <211> 118
 <212> DNA
 <213> Homo sapiens

<400> 844
 ttgggtacac tccctggtac cgggcccccc cgatccggct gccagccctg aggccaagca 60
 cggttgagga cccaagacct ggcttgccgt tgccctgagc tgcagccctg gccccagg 118

<210> 845
 <211> 99
 <212> DNA
 <213> Homo sapiens

<400> 845
 gtacactccc ctggtaccgg gccccccac taccgagtca accttcgcac acggcgagtg 60
 gacactgtgg accctcccta cccacgctcc atcgctcag 99

<210> 846
 <211> 559
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37, 552, 554
 <223> n = A,T,C or G

<400> 846
 cggccgccct tttttttttt ttttggttgt ggctganaat gctggagatg ctcagttctc 60
 tccctcacaa ggtaggccac aaattcttgg tggcgccctc acatctgggg tcttcaggca 120
 ccagccatgc ctgccgagga gtgctgtcag gacagaccat gtccgtgcta ggcccaggca 180
 cagcccaacc actcctcctc caagtctctc ccaggtttct ggtcccgatg ggcaaggatg 240
 accctccag tggctggtac cccaccatcc cactaccct cactgctct cactctccat 300
 cagggtccca atcctggctt cctctctcac gaactctcaa agaaaaggaa ggataaaacc 360
 taaataaacc agacagaagc agctctggaa caaaaagtac aaaaagacag ccagagggtgt 420
 gcggagaggg tgaggtggcc gcgtggacgt gggtagataa tcgcatgcag cactggaact 480
 cctgatgagg ggtgggggtcc ccacttctcc tcaaggtttg agggattggg gggaggggggt 540
 cagctgactc ananaagta 559

<210> 847
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 847
 cgcccgccac gctgggttttg catcttcagg agacgctcgt agccctcgcg cttctcctcg 60
 gccagttcgc ggaagaagtg gctcacgcct tccagagcca catcatcgcg gtcgaaatag 120
 aagcccagag agaggtaggt gtaggaggcc tgcaggtaga aattgaccag gctgttgacg 180
 gctgcctcca cgtcgggtgga ataattctga cgaatctggg agctcatggg tggttggcaa 240
 gaaggagcta accacaaaaa cgggtgctggc aggtcccaga agcaggagat ggccgagaag 300
 atggtcccgagg aggttgcaag cggagaggaa atcggagggc ggtcggaggc tggaagagag 360
 tccccggatc tgttcctgctc aaacactgtt gaagcaagag acagacccgc gggacgtcga 420
 cgccggccgag 430

<210> 848
 <211> 546
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 146, 162
 <223> n = A,T,C or G

<400> 848
 agagtaaagt gcagcctctc cagacactgg ggccccagtg ggcggtggcg aagttgctgg 60
 taggaggagt tggcggaagc acttggaact cttttataag tgtcagctgt gagattttta 120
 tttgatttga aaatgagtaa gtgcanaaag acaccagttc ancagctagc aagtccccgc 180
 tcattcagcc cagatattct tgctgacatt tttgaactct ttgccaagaa cttttcttat 240
 ggcaagccac ttaataatga gtggcagtta ccagatccca gtgagatttt cacctgtgac 300
 cacactgaat ttaatgcatt tcttgatttg aagaactccc taaatgaagt aaaaaaccta 360
 ctgagtgata agaaactgga tgagtggcat gagcacactg ctttcactaa taaagcgggg 420
 aaaatcattt ctcatgttag aaaatctgtg aatgctgaac tttgtactca agcatgggtg 480
 aagttccatg agattttgtg cagctttcca cttattccac aggaagcttt tcagaatgga 540
 aaactg 546

<210> 849
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 849
 gaagtccttc agcaggccac gctcggacag ggtgcgcctc aaggacttct ttctgatgag 60
 ggggaccttg tacatgatgc actcagagag cgccaccaga cccagcagca gcagccactt 120
 catggttctt cccgggtccc aactcgaggg agaaggcgctc gacgcggccg cgaattccac 180
 cacactggac tagtgg 196

<210> 850
 <211> 543
 <212> DNA
 <213> Homo sapiens

<400> 850
 cactgatatt ggagaaaagc acatccggca taaagtgtaa accagtgtct caaacactgg 60
 aagaaccggg agagcaaaca tgatttttct tatttctctt aagtaatctt tcttttagta 120
 aacaacaagt gatctttggc atagattcat acttttaaagg cattaatatt gcatttatat 180
 caggcaagca actatacaaa tatgctgagg gccttgaaaa taatcatcct cattttaaag 240
 gaaatagtga aagcctgagt gtaaaggacc aacttaagtt gtacacattc gatgttgagg 300

```

actaacacac agcgatgggt gggaaggaag gatgttcagg caaggttctt actcctttac 360
tcattctggtt ctggcttttg gaaaaaataa ggtttcatgt gctgggaaat acttagcagt 420
aataagtacc aaaaaggaaa cactgccctc tcattttgcc tagtaggaac ttactgtggt 480
gataagaaat atgaaaccca ttactctctt gaaccccata cttgggagta gatgcagaga 540
gct 543

```

```

<210> 851
<211> 190
<212> DNA
<213> Homo sapiens

```

```

<400> 851
aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctgggtt acccagccgt 60
tgtggccctt gagggtgcca cgaagggtca tctgctcagt catggcggcg gcgagagcgt 120
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc 180
tcctgccgcc 190

```

```

<210> 852
<211> 407
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 38
<223> n = A,T,C or G

```

```

<400> 852
aggcctcaca gaggcggggg cagaaggcgg cgacccanag ccgccacatc cccgccttg 60
ggcgccgtca cagtccccag acgccctgga ctctgcagt ctacgaagac gcgcggggga 120
cggcgtggtt ccgagagagg gcgccaaagg cgacgtgccg gccgccagct ccaggccgag 180
ccccgagcgc ctgcaggaac agggcccttc acccggcgcg ggacgcagag ctgcgagaga 240
atcttggtca gcgcggactc aacgccaggg cgccgcctag aggttggtct ctgtctcggc 300
ctcaccgcgc gggagaccac agagctgctt cccagccgc ccgccgccag aaattggaaa 360
aaaaaaaaatc cagctggggg ctaggaactc ggcttctggc acctctg 407

```

```

<210> 853
<211> 626
<212> DNA
<213> Homo sapiens

```

```

<400> 853
acagtcccag tactctttgc tcagctttcg gggccggcct cgtttccgct tcccgtgctt 60
gggatcccc ttcttgcaat caccgaaacc atcgctgggg aagagcttgc catcagtggg 120
atccaggtcc acgtcacttc caccggagtc tgaggagtgg gagctccgag aagcaccagt 180
ccctgcggtg gagacgtcag agctgccggg ggagggggct cctgcgccac agctgccggg 240
gtggtagggg ctggcttgct gaccgtcgtc cagcagctcc tgggcaaagg ggctgccctg 300
gtcaaagggc cctgggtcta gggcctcctg gaaggccatg ccaccttctt ccagcagctc 360
aatgatccaa ctgagctcat cagaagagct ggaagtgagg tctcgagct gggcatggag 420
ttggtcccc agaggcccaa agaccagacg cagctcctca agggcacaat tgcagagggt 480
ggcgccatcc atgtcacatc gtgagaagtc aatggcgctt gcgtcgact tgttcttctc 540
cacttggtag ctgatccagt ccagaacctg cgtcttcgac cagaactggg gctgttcccc 600
caaccagctg gccttctctg taccct 626

```


<210> 854
 <211> 218
 <212> DNA
 <213> Homo sapiens

<400> 854
 atgacggctg cccgaagccc cccgagattg cacatggcta tgtggagcac tcggttcgct 60
 accagtgtaa gaactactac aaactgcgca cagaaggaga tggagtatac accttaaattg 120
 ataagaagca gtggataaat aaggctgttg gagataaact tcctgaatgt gaagcagtat 180
 gtgggaagcc caagaatccg gcaaaccag tgcagcgg 218

<210> 855
 <211> 50
 <212> DNA
 <213> Homo sapiens

<400> 855
 gaggaacgaa gaataaagga gattgtgaag aaacattctc agtttattgg 50

<210> 856
 <211> 116
 <212> DNA
 <213> Homo sapiens

<400> 856
 tccactagtc cagtgtggtg gaattcgcgg ccgcgtcgac gccccgcgag cacagagcct 60
 cgcctttgcc gatccgccgc cgtccacac ccgccgccag ctcaccatgg atgatg 116

<210> 857
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 857
 ggcgacgacc ccaagagggg ggtggggccac gatttctact tcttttttca ccattcgaca 60
 gttccactct tacaoggcag ccacatagtg ttcttccatc tagctctcgg actgcatcag 120
 ctgcatctcg gggatcttca aattcaacaa aagcaaagcc ggggtgggtt ctagcaaccc 180
 acacacttcg gagtgggtcca tagtagccaa aagcccgttc caattccgtc ttgttgccat 240
 tgtttccaag attgectaca taaaccttac agtccaatgg acaggaatca cgatgcattt 300
 cgagatctag ggttaaaaaa tgcggcggct caaatccaca cgctccgatg agtcttcccc 360
 ctttcctccg gcccaacacc aaccaacgtc gacgcggccg cg 402

<210> 858
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 858
 acattttatg acctctccca ataggggcag aggtgagcac ccctggtgaa aagttaagac 60
 tcagtgagta taaatacgcc aagaagagct gtggcttctt tcaactggtg cctcagaaag 120
 gctgtgagca gtgttggtgg catacctgtc acagcatcta gcaaagcacc tg 172

<210> 859
 <211> 196

<212> DNA
<213> Homo sapiens

<400> 859
aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctgggtt acccagccgt 60
tgtggccctt gagggtgcca cgaagggtca tctgctcagt catggcggcg gcgagagcgt 120
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc 180
tcttgccgcc ggtcga 196

<210> 860
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 480
<223> n = A,T,C or G

<400> 860
ggcgtcctgg tgcttaccac ctggaaactg gtgaggtggt gggagaactc ctggtggacc 60
ctagtgaag ccttccagta atttcttgaa gctgagcgct caggtgagta gggcgacatc 120
tggtggccgg ttgttggaagg tcattgcaga gaggaaggaa gccgaggagg ggagcctgca 180
gtgaggggct cctgggggttc tccggttctc accacccttg ggccacgccg tctagtccac 240
acctgaggag ttggtcaggt agaaggggcg gatgaccgtg cggaagccgt tgaagtggcc 300
tgccgggcag gggaaggagg aggtgctctt cgagctgttg gtgtccaggg cactgggaat 360
cgcagccttc cagccctcga aatcggtgac gtctgccacg aagagccctt cgcagagcat 420
cagggctttg ttttcgtagg caatggtgcg atctgagccg ccagacttgg tgaggcccan 480
gacagggagc tcgtccgagg agcaggagaa gccgtagttc cagcagctct ggatggtg 538

<210> 861
<211> 204
<212> DNA
<213> Homo sapiens

<400> 861
aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctgggtt acccagccgt 60
tgtggccctt gagggtgcca cgaagggtca tctgctcagt catggcggcg acgagagcgt 120
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc 180
tcttgccgcc tcgacgcggc cgcg 204

<210> 862
<211> 217
<212> DNA
<213> Homo sapiens

<400> 862
aatgtcaggg gtgttggggg ctttggtctg gtccctgggtc ttctgttaga gacctggagg 60
cgcttggttc ttggggttct ccaggattcc agcctcgtag ctgatgtgca tgaggttctc 120
atccatgctc caggggttct tgggagtgcg cgggatggga atcccgtgtt gctttgcgta 180
ctccatcagg tcattgcggc ccttgaaccg gttgtag 217

<210> 863
<211> 192

<212> DNA
 <213> Homo sapiens

<400> 863
 aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctgggtt acccagccgt 60
 tgtggccctt gagggtgcca cgaaggggtca tctgctcagt catggcggcg gcgagagcgt 120
 gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacgtc 180
 gacgcggccg cg 192

<210> 864
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 864
 tttccccttg aagaagtaga cccgctcccg gccactgtag ctatgggcag ggagggccaa 60
 ggctgcatcc acgttgctcg ggatgccatc gaagccgtca gagatatttc gggggtaatc 120
 aggttcagg acaccatcct caaagcg 147

<210> 865
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 865
 cgcccgctgg acttggttg agctgtgagg ggtgggaggg gaggatagca ccggaagatg 60
 ctgctccggg cccaacacca gccctggcca ggctctcccc tcccaggggc agcgcccagt 120
 ccccaggggc tgccagagcc ctgtgtgctt tgccgcattc ccctgatgca gcttttgga 180
 actgaaaggc agggctctcg ctgagtgcac ctggggcttc ctgagcccat ctgcggcggc 240
 cccaccctgg cctaggtgct gagtgcagct gctgcagaca gccctccct ccttagtgga 300
 gcctggaggg tgggggtgct ggggatgcag gcaggggcag gggctccaga gccacaggtc 360
 agaagcaggg ctgggggagg ggtggagcca ttcagcctca ggcaccctca cagctaggtg 420
 actaggggca gggacagaat ggggtg 446

<210> 866
 <211> 87
 <212> DNA
 <213> Homo sapiens

<400> 866
 tccctcaact ggaccatggg cctgcccacc gacaatggcc acgacagcga ccaggtgttt 60
 gatttcaacg gcaccaggc agtgagg 87

<210> 867
 <211> 123
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2
 <223> n = A,T,C or G

<400> 867

```

cncctggtac cgggcccccc cacttttaaaa tcttttgtta agaaatagga aagattagga 60
aatatcatatc tgcacctgaa atgctgcagc aggggttttt gtttgcttgt ttttgcctt 120
cag                                                123

```

```

<210> 868
<211> 634
<212> DNA
<213> Homo sapiens

```

```

<400> 868
caggctgctg taggtggcaa tctcctgctc cagccgcgac ttgatgtcca tgagccgctg 60
gtactcctga ttctgccgct cactatcagc tcgcacatcg cccagctggg cttcaatacc 120
gctgatcagc gcttgatgat ggcgcagctg ggctccaaag cgcgcctccg tttctgccag 180
tgtgtcttcc aaggcagctt tcatgctcag ctgtgactgc agctcaatct caagaccctg 240
aagggtgctc cgcaggtcag taacctcgga cctgctcatc tggagctgct ccgtgtggcc 300
agcgacctcc cggttcaatt cttcagtcag gctggtgaac caggcttcag catccttccg 360
gttctgctcg gccatgacct catattggct tcgcatgtca ctcaggatct tggcgagatc 420
gggtgcccgga gcggaatcca cctccacact gacctggcct cccacttggc cctcagcgt 480
actgatttcc tctcatggtt tcttcttcag gtaggcagc tcttccttca ggcttcgat 540
ctgcatctcc aggtcgggtc tggccagggt cagctcatcc agcacctgc gcaggccgtt 600
gatgtcggcc tccacgtca tgcgcagagc ctgt                                                634

```

```

<210> 869
<211> 197
<212> DNA
<213> Homo sapiens

```

```

<400> 869
aggcggagag gatcatgtcc gggaactgct gggtagtagc gatctgggtt acccagccgt 60
tgtggccctt gagggtgcc cgaagggtca tctgctcagt catggcggcg gcgagagcgt 120
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc 180
tcttgcgcgc gtcgacg

```

```

<210> 870
<211> 579
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 155, 215, 224, 246, 262, 272, 288, 313, 316, 382, 426, 433,
469, 482, 483, 507, 518, 521, 530, 564
<223> n = A,T,C or G

```

```

<400> 870
cgccgcgcct tttttttttt tttttttttt tttttatggg gccaatttta aatagtttta 60
tttaagacat tgcattttcc acttacaata cagtgtttat aaagtgcaat gttatttcc 120
tccctgtgct atatgttcca tattcaagta ttganaatgc ccagtaactt actatagcag 180
cttaactttt taaaactgcc acagaatttg ctacnaattt aggncccttca aatgttttaa 240
atgtgnggaa caatgctaca tntacacttg gntggcttaa tcaacctntt caatgggggg 300
cctgagggaa gcnccnccag agggaggagc tccaccacca ggaaatcccc caggcattcc 360
tcttggcatg cctcctgcac tntggtacag cttggtgatg atgggggttg aaactttctc 420
cagctntttc tgntgatgtt caaattcttc cttctcagca gtctgattnt tatcaagcca 480
gnngataatt tcattacact tgtccanaat cttctgtntg nctcatcgn taatcttgcc 540

```

ttgaagtttc tcattttcaa cagntgcttt catgttgaa

579

<210> 871
<211> 518
<212> DNA
<213> Homo sapiens

<400> 871
ctttctcctt cttatagacg ttccggacgg gcatgaccgg tccggtcagc tgggtggcca 60
gtttcagttc ttcagcagaa ctgtctccct tcttgggggc cgagggttc ctggggaaga 120
ggatgagttt ggagcggtag tcttcagcc gctgcacgtt ggctgcagg gactccgtgg 180
acttgttccg cctcctcgga tccacagaaa tgccgatggt ccgggccacc ttcttgtaga 240
tgccggccac cctgagctcc tccaggctga agccgcggcc ggcgcgacc ttctgtgtgt 300
accgaaccgt ggggcagcgc acgatgggac ggatgggacc cgacgcgggg cgcggggcga 360
tgccggcgcg cttggcttgc cgggccttac gtctgcggat ctacggggcc ggctgggtga 420
accacgtggc cagcgccgc tgccagtcct tgtggaagtg gggcttcaag accatgccat 480
tccggctggg cgccatgggt gctacggcc ctgcggct 518

<210> 872
<211> 404
<212> DNA
<213> Homo sapiens

<400> 872
ctaaacactg tccagcgcag gggggtgcta gggaggtagc gtgacaacac gatggctgcg 60
atgcctgaag tgatgaccac gatggcgga gtgacagaga ggatgttgac cacgcagtag 120
tgcagagcca ccgcattctg aggggtgccc acgtagcgca gcactgtgcc atggaacagg 180
gcagctgtga tgaagctcac atggcccagc accaccagca ccaggcctgt cttcatcagc 240
accttcggga agtcgcccac actcaggcct ccgaggcgca gacacatgtc ggctccgcgc 300
tggtcccgcc ccggcttca gcgcggctcc cgaggctgcg ggccgcggg ggacctgct 360
cccatccgc tggtccgctc ccgcgcgcc ccgcaccgtc gcgt 404

<210> 873
<211> 175
<212> DNA
<213> Homo sapiens

<400> 873
ggctgccagc gcctctaccc cgtgctgcag cagagcctgg tgcgggcgc ccgccgcagg 60
ggcgccgcgc ccagccctg aaccagaagc ctgagcaact acggacgcaa gccgaggacc 120
gtgctgcgc cgtccacgaa aagaccgcgc ccatcggcct ccagtttgcg tcgag 175

<210> 874
<211> 215
<212> DNA
<213> Homo sapiens

<400> 874
ggtagagaac cctgcggctg cgctttcggt gccgcgaga ggcgtgggg cgcgcggcag 60
gggcgcgtgc gggctccggg agagggtcga aggtgaagat ctgaggacc gagccccgc 120
ggggtcccg gatggtggag ggggcgggg tcggggcctg caggatggtc atggtcgggt 180
ggcagctgcg agagtgcac atggtgagc gagcg 215

<210> 875

<211> 208
 <212> DNA
 <213> Homo sapiens

<400> 875
 atccagagac aatctgccgg ttgtcagagg agaaggccac actcagcaca tccttggtat 60
 ggcccacaaa tcgcctcgtg gtgggtgccg ttgtgagatc ccagaggcgc aggggtccat 120
 cccaggagcc tgagagggca aactggccat ctgaggagat aaccacatca ctaacaaagt 180
 gggagtgacc ccgcagagca cgctgtgg 208

<210> 876
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 876
 gagcagctgg tttctcctgg acagcagcat ctggctccgc tcccttcgga actccaggta 60
 ctcttatttg tttttgagct tgttcattgca gtccatgagg gctgggtagc cacctgagaa 120
 tcgccacagg tgcactgcct ggtcctgctc cccataccac gtgttcagc tgcccacgag 180
 tgagcatggg tagtcctcat ccagggtgaag cttgggcagc acagcctccg tgaggctggt 240
 gtaggcatcc aggtattcag gctttacatt gtgaaactgg atcttataga ggttgctggt 300
 ttccttcttg gacagcaggg tggagtgggc atccttccgg ggatccactt tgtgaacaaa 360
 gagggagcgg aaccagctgc cttcattgtc cttggaatag aaacgcgccg cagctgcaga 420
 cgcaacgtcc ccagcgcgag gccccggggc cccagcagc cgccgcgccg tcacagagat 480
 gctg 484

<210> 877
 <211> 558
 <212> DNA
 <213> Homo sapiens

<400> 877
 ggcgtcctgg tgcttaccac ctggaaactg gtgaggtggt gggagaactc ctggtggacc 60
 ctagtggaaag ccttccagta atttcttgaa gctgagcgtc caggtgagta gggcgacatc 120
 ttggtggccgg ttgttgaaagg tcattgcaga gaggaaggaa gccgaggagg ggagcctgca 180
 gtgagggcgt cctgggggttc tccggttctc accacccttg ggccacgccg tctagtccac 240
 acctgaggag ttggtcaggt agaaggggcg gatgaccgtg cggaagccgt tgaagtgcc 300
 tgccgggcag gggaaggagg aggtgctctt cgagctgttg gtgtccaggg cactgggaat 360
 cgcagccttc cagccctoga aatcggtgac gtctgccacg aagagccctt cgcagagcat 420
 cagggtcttg ttttcgtagg caatggtgcg atctgagccg ccagacttgg tgaggcccag 480
 gacagggagc tcgtccgagg agcaggagaa gccgtagtct cagcagctct ggatggtggg 540
 gaggtagacc agggacca 558

<210> 878
 <211> 503
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 132, 185
 <223> n = A,T,C or G

<400> 878

```

cggccgcaac cgcgcggaacc cgaagtcgat gatatttcacc ggggccccgg gcgtgtcgtc 60
ggcgtacagg atgtttctccg gcttgaggtc gcggtgcacc acgcccgcct cctcgtgcat 120
gaagctcacg gncgacacga ggctgcgcag gatctggctt gcttccgact cgtgaagtg 180
ccgcntcttg cggatgtgct ccagcagctc cccgccccgc agcagctcca ggaccaggta 240
cgtgtgcagc tggctgtgat gcacctcgtg cagattcacc acgttggggg gtgactggca 300
caggcgcagg gcagccaactt cgcgctgcgt gttcgcctcc agcctgcgac tgaggatctt 360
gactgcgaac tcctggccgc tctggcgctg gcggcagcgg cgacacacag aaaagctgcc 420
ctggcccagc gcaggctccc gcaggctccag ctcgtactgc tggaagaagg gcgagtcctg 480
catcatagcg ctctggcca ccg 503

```

```

<210> 879
<211> 78
<212> DNA
<213> Homo sapiens

```

```

<400> 879
ctgcctcggc tggcggggcg ggggaggcgg agagctcggg gcacgcgctg ccgtccggac 60
cgcgtcgacg cggccgcg 78

```

```

<210> 880
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<400> 880
tgatgtgggc gattgatgaa aaggcgggtt aggcgtcttg tgagtagtgc atggctagga 60
atagtctgt ggtgatttgg aggatcaggc aggcgccaag gagtgagccg aagtttcac 120
atgcggagat gttggatggg gtggggaggc cgatgaatga gtggttaatt aattttatta 180
gggggttaat tttgcggtcg acgcggccgc g 211

```

```

<210> 881
<211> 373
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 37, 38, 88, 335
<223> n = A,T,C or G

```

```

<400> 881
cccacagtgg cttgtttccg cagtgcgcgg ccgtcannac ccaactctgg tccaccagga 60
caccgcgcga gtggaacgag aggcgctnga agagcgagac ctgccagggc tgcgagccgc 120
gcgcgcacgg ggccgcatag gcttcggggc ccaagcgcgt gtcgttttgg gggagcagcg 180
ccgcctctgc ggcccagagt tgcgccatca gcagcggcag cagcttcgcc agagcccggg 240
cgccagaggc ggccgagagg tggagggtcg gagctctcat ggccaggatc tgggagtcgc 300
cgataggaag gagggagggg acccagacgt gcctntgccc tgcctgtggg ctgccgcgtc 360
cgacacggcc gcg 373

```

```

<210> 882
<211> 300
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> 48
 <223> n = A,T,C or G

<400> 882
 cggccgcgtt tttttttttt ttttcagaca attcagcctt tattttanaa aataattctg 60
 tagcttccac tttctttcat gaaactgagg tcaggcaaga aacaaaaatc caccaagtcc 120
 tctccatcct gccatggcgt cctggcctgt gaggacatgg ggcgcctggg agcgggaggg 180
 gaggctgggc agcaactgggc cagaggcgctc ctggctactg ctccacctgg tcaactgctcc 240
 acctcatgct gagaggagcc tgtgtgtcaa accccagggg aaaaaggac aggcagatcg 300

<210> 883
 <211> 230
 <212> DNA
 <213> Homo sapiens

<400> 883
 ggtagagaac cctgcggctg cgcttttcggt gcccgcgaga ggcgctgggg cgcccggcag 60
 gggccgctgc gggctccggg agaggggtcga aggtgaagat ctcaaggacc gagccccgcc 120
 ggggtcccgg gatggtggag ggggcccggg tcggggcctg caggatggtc atggtcgggt 180
 ggcagctgcg agagtgcac atggtgagcc gagcggtcga cgcggcccg 230

<210> 884
 <211> 601
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 555
 <223> n = A,T,C or G

<400> 884
 gcccccaatt ccagctgcc aaccacccac ggtgactgca ttagttcgga tgatcataca 60
 aagctgattg aagcaacct ctactttttg gtcgtgagcc ttttgcttgg tgcaggtttc 120
 attggtctgt ttggtgacgt tgtcattgca acagaatggg ggaaaggcac tgttctcttt 180
 gaagtagggg gagtcctcaa aatccgtata gttggtgaag ccacagcact tgagcccttt 240
 catggtgggt ttccacactt gagtgaagtc ttcttgggaa ccataatctt tcttgatggc 300
 aggcactacc agcaacgtca ggaagtgtc agccattgtg gtgtacacca aggcgaccac 360
 agcagctgca acctcagcaa tgaagatgag gaggaggatg aagaagaacg tcacgagggc 420
 acacttgctc tcagtcttag caccatagca gccagga aagaagacaa agaccacaac 480
 gccggctgag atgaggaagt agcccacgtt gacaaactgc atggcactgg acgacagtgg 540
 cccgaagatc ttcanaaagg atgccccatc gattgacacc cagatgcccc ctgccaacag 600
 g 601

<210> 885
 <211> 207
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> 82, 83, 101, 127, 128

<223> n = A,T,C or G

<400> 885

```
caggcggaga ggatcatgtc cggaactgc ggggtagtag cgatctgggt taccagccg 60
ttgtggcct tgaggggtgc annaagggtc atctgctcag ncatggcggc ggcgagagcg 120
tgtgtcnntg cagcgacgag gatggcactg gatggcttag agaaactagc accacaacct 180
ctcctgccgc cggtcgacgc ggccgcg 207
```

<210> 886

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3, 10, 14, 17, 37, 41, 88, 122, 123, 152, 158, 282, 388, 422

<223> n = A,T,C or G

<400> 886

```
cancttatan aaangnanaa ggaaacccca acatgcntgc nctgccttgg tgaccagggga 60
agtcacccca cggctatggg gaaattancc cgaggcttag ctttcattat cactgtctcc 120
cnnggtgtgc ttgtcaaaga gatattccgc cnagccanat tcgggcgctc ccatcttgcg 180
caagttggtc acgtggtcac ccaattcttt gatggcttcc acctgctcat tcaggtaatg 240
tgtctcaatg aagtcacaca aatgggggtc atttttgtca gnggccagtt tgtgcagttc 300
cagtagtgac tgattcacat ttttttccaa atgtaatgca cactccattg cattcagccc 360
gctctcccag tcatcacagt ctggtttntt gatatcctga aggaagattc ggccacctcg 420
tnggttctgc agcttcatca gt 442
```

<210> 887

<211> 222

<212> DNA

<213> Homo sapiens

<400> 887

```
gctcaggctc caaagccagc aggaagagg tagctcggga cgtggagccg ccgcccaggt 60
gcgccaggac cacctcggcc gtcaccttag ccagggtggc gcttaggtcc actgtgcgct 120
tcacgtcttc attgatcagc ggccgtgcct cggaggaggc gctgcccggc gccggggccc 180
aagtcaccaag caacaggagc agaaacaagc cggcggctgg cg 222
```

<210> 888

<211> 89

<212> DNA

<213> Homo sapiens

<400> 888

```
ggtggcgtag cgcccgttta taaagccgca acaccttttg ctgatgggtc aggtagggtc 60
ccgacgccaa gaacgccatt acggccgcg 89
```

<210> 889

<211> 451

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5
 <223> n = A,T,C or G

<400> 889
 gcggncgctg gacttggett gagctgtgag ggggtgggagg ggaggatagc accggaagat 60
 gctgctccgg gccaacacc agccctggcc aggcctctcc ctcccagggg cagcgcccag 120
 tcccagggg ctgccagagc cctgtgtgcc ttgccgcatt ccctgatgc agcttttggc 180
 aactgaaagg cagggctctc gctgagtgca cctggggctt cctgagccca tctgcggcgg 240
 cccacccctg gcctaggtgc tgagtgcagc tgctgcagac agcccctccc tccttagtg 300
 agcctggagg gtgggggtgct cggggatgca ggcaggggca ggggctccag agccacaggt 360
 cagaagcagg gctgggggag ggggtggagcc attcagcctc aggcaccctc acagctaggt 420
 gactaggggc agggacagaa tggggatgaat t 451

<210> 890
 <211> 66
 <212> DNA
 <213> Homo sapiens

<400> 890
 tccactagtc cagtgtgggtg gaattcgcg cgcgctcgac ctgctgcctc acccacagct 60
 tttgat 66

<210> 891
 <211> 599
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 583
 <223> n = A,T,C or G

<400> 891
 gggcgctcctg gtgcttacca cctggaaact ggtgaggtgg tgggagaact cctggtggac 60
 cctagtggaa gccttccagt aatttcttga agctgagcgc tcaggtgagt agggcgacat 120
 ctggtggccg gttgttgaag gtcattgcag agaggaagga agccgaggag gggagcctgc 180
 agtgagggcg tcctgggggt ctccggttct caccaccctt gggccacgcc gtctagtcca 240
 cacctgagga gttggtcagg tagaaggggc ggatgaccgt gcggaagccg ttgaagtgcc 300
 ctgccgggca ggggaaggag gaggtgctct tcgagctgtt ggtgtccagg gcaactggga 360
 tcgcagcctt ccagccctcg aaatcgggtga cgtctgccac gaagagccct tcgcagagca 420
 tcagggcctt gttttcgtag gcaatgggtgc gatctgagcc gccagacttg gtgaggcca 480
 ggacagggag ctcgctccgag gagcaggaga agccgtagtt ccagcagctc tggatgggtg 540
 ggaggtagac cagggaccag gacaccctct tgtcctggaa gangaagctg ggggtgtgt 599

<210> 892
 <211> 113
 <212> DNA
 <213> Homo sapiens

<400> 892
 gtctcaaaaca ggaccgcatt tccggcattt cggctggtgt ccgtgttagt ggccacctgg 60
 gccagcaagt catlcatggt ctcaactgctc tcctcgtggt tccggcccag gat 113

<210> 893
 <211> 208
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 160
 <223> n = A,T,C or G

<400> 893
 gaggcggaga ggatcatgtc cgggaactgc ggggtagtag cgatctgggt taccagccg 60
 ttgtggccct tgaggggtgcc acgaagggtc atctgctcag tcatggcggc ggcgagagcg 120
 tgtgtcgctg cagcgacgag gatggcactg gatggcttan agaaactagc accacaacct 180
 ctctgcccg tgcgcgggc cggaatt 208

<210> 894
 <211> 67
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9
 <223> n = A,T,C or G

<400> 894
 gcgatgganc gtgggtaggg agggccaca gtgtccactc gccgtgtgcg aaggttgact 60
 cggtagt 67

<210> 895
 <211> 58
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 50, 52
 <223> n = A,T,C or G

<400> 895
 gcggcgcgcc tttttttttt tttttttttt tttttttttt ttttttccn cncataaaa 58

<210> 896
 <211> 177
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 24, 63, 84, 87
 <223> n = A,T,C or G

<400> 896
gacattttat gacctctccc aatnggggca gaggtgagca cccctggtga aaagttaaga 60
ctnagtgaagt ataaatacgc caanaanagc tgtggcttct ttactggtg tcctcagaaa 120
ggctgtgagc agtgtttggtg gcataacctgt cacagcatct agcaaagcac ctgaatt 177

<210> 897
<211> 542
<212> DNA
<213> Homo sapiens

<400> 897
gctttctcct tcttatagac gttccggacg ggcattgaccg gtcgggtcag ctgggtggcc 60
agtttcagtt cttcagcaga actgtctccc ttcttggggg ccgagggctt cctggggaag 120
aggatgagtt tggagcggta ctccctcagc cgctgcacgt tggctcgcag ggactccgtg 180
gacttgttcc gcctcctcgg atccacagaa atgccgatgg tccggggccac cttcttggtg 240
atgccggcca ccctgagctc ctccaggctg aagccgcggc cggcgcgcac cttcgtgtgg 300
taccgaaccg tggggcagcg cacgatgggc cggatgggac ccgacgcggg gcgcggggcg 360
atgcggcgcg ccttggtctg cggggcctta cgtctgcgga tcttacgggc cggctgggtg 420
aaccacgtgg ccacgcgcgc ctgccagtcc ttgtggaagt ggggcttcaa gaccatgcc 480
ttccggctgg gcgcacatggc tgcctacggc cctgcggctc ctggtcgacg cggccgcgaa 540
tt 542

<210> 898
<211> 165
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 5, 40, 77, 79, 89, 96, 123
<223> n = A,T,C or G

<400> 898
tancnatctg ggttacccag ccgttggtggc ccttgagggn gccacgaagg gtcattctgct 60
cagtcattggc ggcggcnana gcgtgtgtng ctgcancgac gaggatggca ctggatggct 120
tanagaaact agcaccacaa cctctcgtcg acgcggccgc gaatt 165

<210> 899
<211> 67
<212> DNA
<213> Homo sapiens

<400> 899
tccactagtc cagtgtggtg gaattcgcgg ccgcgtcgac gctgctgcct caccacagc 60
ttttgat 77

<210> 900
<211> 77
<212> DNA
<213> Homo sapiens

<400> 900
cttcagggtc cagagctccc aggtttccag gttgcagtcc ctccagtccc agagctccca 60
gggtttcggt ttccagt 77

<210> 901
 <211> 114
 <212> DNA
 <213> Homo sapiens

<400> 901
 gggccgggga ggacggctgg gggctccggg gtcgcctgca caattgcctg agcaggaggc 60
 gcaagtggga gatgacgata aagggcgggg ccagcgcggg ccgagagtgg aatt 114

<210> 902
 <211> 64
 <212> DNA
 <213> Homo sapiens

<400> 902
 tacactactc ctgaggatgc tactcccgag cccggagagg acccacgcgt gaccggggcc 60
 aagt 64

<210> 903
 <211> 63
 <212> DNA
 <213> Homo sapiens

<400> 903
 tcaaaagctg tgggtgaggc aggtcgacgc ggccgcgaat tccaccacac tggactagtg 60
 gat 63

<210> 904
 <211> 142
 <212> DNA
 <213> Homo sapiens

<400> 904
 tcctcagcca gggagacagg gaccaggcag cacaggcctg ccagcaggag gatgccccac 60
 gagacagaag acggcattgt cgattcactg tcccaggcca ggtcgacgcg gccgcgaatt 120
 ccaccacact ggactagtgg at 142

<210> 905
 <211> 101
 <212> DNA
 <213> Homo sapiens

<400> 905
 tccactagtc cagtgtggtg gaattcgcg cgcgctcgac gccacotccg agagcctgga 60
 tgtgatggcg tcacagaaga gaccctccca gaggcacgga t 101

<210> 906
 <211> 506
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> 233, 273, 302

<223> n = A,T,C or G

<400> 906

```
gcggccgcac acacagccag gcgctaggct ccctgcggga cctcgggaag ggggaagagc 60
gtcaacaatt tacggagggt ccagccgctg ggtcagattg agacaaacca ttgtgtggtt 120
gggtttgggt cagcaggctg gagagggttc tgttcttttt gatcattatc gtttggggcc 180
ccaagggagg gtcttgggag ccacctgagc cccaaagctg ggaaattcct canagctgct 240
catgtcagga gccttctcac tgctgctggc ggnccagggt gcgtcccgca ccacaaagcc 300
tntggaaggt gccttggcct ctctgtgtgc tgggggtttc atgtatacct gcagcgctc 360
actgtccacc acgtcagcta ggtattcttc ctccagattg aggatgtggt cgatggcttc 420
ctccacattc tctgggagcc ccgtcacagt gacgcagttg gggctctggg ctccgctctg 480
tgggaagcga atgtccacct tgaatt 506
```

<210> 907

<211> 93

<212> DNA

<213> Homo sapiens

<400> 907

```
tcccgtgca caagttcacg tccatccgcc ggaccatgtc ggaggttggg ggctctgtgg 60
aggacctgat tgccaaaggc ccgctctcaa agt 93
```

<210> 908

<211> 238

<212> DNA

<213> Homo sapiens

<400> 908

```
gggtagagaa ccctgcggct gcgctttcgg tgcccgcgag aggcgctggg gcgcccggca 60
ggggccgctg cgggctccgg gagagggtcg aaggtgaaga tctcaggacc ggagccccgc 120
cgggggtccc ggatggtgga gggggccggg gtccgggcct gcaggatggt catggtcggg 180
tggcagctgc gagagtgaca catggtgagc cgagcggagg tcgacgcggc cgcgaatt 238
```

<210> 909

<211> 190

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 25, 56, 92, 97, 125, 132, 137, 140, 149, 150, 152, 175, 181

<223> n = A,T,C or G

<400> 909

```
gggcgtcctg gtgcttacca cctgnaaact ggtgagggtg tgggagaact cctggnngac 60
cctagtggaa gccttccagt aatttcttga anctgancgc tcaggtagt agggcgacat 120
ctggnngccg gntgttnaan gtcattgcnn anaggaagga agccgaggag ggganccctg 180
ngtgagggcg 190
```

<210> 910

<211> 93

<212> DNA

<213> Homo sapiens

<210> 915
 <211> 391
 <212> DNA
 <213> Homo sapiens

<400> 915
 gctaaacact gtccagcgca ggggggtgct agggaggtag cgtgacaaca cgatggctgc 60
 gatgcctgaa gtgatgacca cgatggcgga agtgacagag aggatgttga ccacgcagta 120
 ctgcagagcc accgcatctt gaggggtgcc cactagcgc agcactgtgc catggaacag 180
 ggagctgtg atgaagctca catggcccag caccaccagc accaggcctg tcttcatcag 240
 caccttccgg aagtcgcca cactcaggcc tccgaggcgc agacacatgt cggctccgcg 300
 ctgggtccgc ccccggttc agcgcggtc cegaggctgc gggccgcgg gggaccctgc 360
 tcccatccg ctgtcgacgc ggccgcgaat t 391

<210> 916
 <211> 559
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 538, 544
 <223> n = A,T,C or G

<400> 916
 ggcgtcctg gtgcttacca cctggaaact ggtgaggtg tgggagaact cctggtggac 60
 cctagtggaa gccttcagat aatttcttga agctgagcgc tcaggtgagt agggcgacat 120
 ctggtggccg gttgttgaag gtcattgcag agaggaagga agccgaggag gggagcctgc 180
 agtgagggcg tcttgggtt ctcgggttct caccaccctt gggccacgcc gtctagtcca 240
 cacctgagga gttggtcagg tagaaggggc ggatgaccgt gcggaagccg ttgaagtgcc 300
 ctgccgggca ggggaaggag gaggtgctct tcgagctgtt ggtgtccagg gcactgggaa 360
 tcgcagcctt ccagccctcg aaatcgggtga cgtctgccac gaagagccct tcgcagagca 420
 tcagggtctt gttttcgtag gcaatgggtgc gatctgagcc gccagacttg gtgaggccca 480
 ggacagggag ctcgctccag gagcaggaga agccgtagtt ccagcagctc tggatggngg 540
 ggangtagac cagggacca 559

<210> 917
 <211> 447
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 284, 287, 336, 360, 374, 392, 397, 400, 409
 <223> n = A,T,C or G

<400> 917
 gtccttggc gagcacgtga ccccggcggg cagcaggag ggcaggcagg ccctgcgca 60
 ggcgtgggt ggactgcttc caggtgtcat attggaagaa cttgccacag gggatatctg 120
 ggaagtgtc cggaagcacg gtcggagggg tcgacacgac cctctcgac ttggcgggg 180
 tagcacagta cgtctccagg agggccaggt cacagctgcg gaaacagcac tctcaacga 240
 tgccacggct gcgacggctc acacggcttg cgggctgct gaantanaag ccgcgggtccc 300
 cacagacgaa ctggaggggtg tccaccagct ccccgncgca cagggtctca ctggggcggn 360

aagcagcaat gcancacgag gcgaaggcca anaaggngan aagcaccanc atcgacttcc 420
ccattgggat tcccattggg gtctgga 447

<210> 918
<211> 574
<212> DNA
<213> Homo sapiens

<400> 918
gctccttggc gagcacgtga ccccgccggg cacgcaggag ggcaggcagg cccctgcgca 60
ggcgctgggt ggactgcttc caggtgtcat attggaagaa cttgccacg gggatatctg 120
ggaagtgtgc cggaagcacg gtcggagggt tcgacacgtc cctctcgac ttggcggggg 180
tagcacagta cgtctccagg agggccagggt cacagctgcg gaaacagcac tcctcaacga 240
tgccacggct gcgacggctc acacggcctt cgggcctgct gaagtagaag ccgcggtccc 300
cacagacgaa ctggagggtg tccaccagct ccccgccgca cagggtctca ctggggcggg 360
aagcagcaat gcagcacgag gcgaaggcca agaaggtagag aagcaccagc atcgacttcc 420
ccattgggat tcccattggg gtctggaagc cggcgacgct gccgcccacc tccctgctgc 480
gtgtcgcaaa ccgaacagcg ggcgttggcc ctctgcccgc aactcctct gccagcgccg 540
ctctggccga gtcgcggggg ccgaatgtgc gacg 574

<210> 919
<211> 139
<212> DNA
<213> Homo sapiens

<400> 919
gccgcgctcg tcgtcgacaa cggctccggc atgtgcaagg ccggcttcgc gggcgacgat 60
gccccccggg ccgtcttccc ctccatcggtg gggcgcccca ggcaccaggg cgtgatgggt 120
ggcatgggtc agaaggatt 139

<210> 920
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 526, 553, 556, 571
<223> n = A,T,C or G

<400> 920
ggtggacacc accctcaaga gcttgagcca gcagatcgag aacatccgga gccagaggg 60
cagccgcaag aacccccccc gcacctgccg tgacctcaag atgtgccact ctgactggaa 120
gagtggagag tactggattg accccaacca aggtgcaac ctggatgcca tcaaagtctt 180
ctgcaacatg gagactgggt agacctgcgt gtacccact cagcccagtg tggcccagaa 240
gaactgggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat 300
gaccgatgga ttccagttcg agtatggcgg ccagggtcc gacctgccg atgtggccat 360
ccagctgacc ttctgcccgc tgatgtccac cgaggcctcc cagaacatca cctaccactg 420
caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg ccctgctcct 480
ccagggtccc aacgagatcg agatccgcgc cgagggcaac agccgnttca cctacagcgt 540
cactgtcgat ggntgnacga gtcacaccgg nacct 576

<210> 921
<211> 421

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 387, 408, 409, 413, 419
<223> n = A,T,C or G

<400> 921
gcgcatctgc cgcgcctagt cggggaagag caggaagccg gagaagacgc tgtcagagcc 60
ctggatgccc accatgtcgt agtagtcatt gacagccagc cacacctcct cgcccacctg 120
caacctcagc agcacaccgc ccgagttgac ctgattgggt ttggacgtgt ggccacagaa 180
ggtgaccact ttgacgccgc tgcggtacag cagcacgcac aggttggctg tatgcgacgc 240
gtggtagaca aagtagtaga ggccggggac tttgcagggt aacttgccag tgctcgtgtc 300
ataatctccc tgcgggttgg tgaggaccgc gttgaatctg atcaggctgt tgggtgcagg 360
gggctggtgg gtctgccgag tgaccgngaa cactgactgg aatttctnnt tgnatctgnc 420
c 421

<210> 922
<211> 177
<212> DNA
<213> Homo sapiens

<400> 922
gacattttat gacctctccc aataggggca gaggtgagca cccctggtga aaagttaaga 60
ctcagtgagt ataaatacgc caagaagagc tgtggcttct ttcactggtg tctcagaaa 120
ggctgtgagc agtgttggtg gcatacctgt cacagcatct agcaaagcac ctgaatt 177

<210> 923
<211> 133
<212> DNA
<213> Homo sapiens

<400> 923
tccactagtc cagtgtggtg gaattcgcg cgcgctcgac gcgagcagcg gcggcgggcg 60
ggagagacgc agcggaggtt ttcctgggtt cggaccccag cggccggatg gtgaaatcct 120
ccctgcagcg gat 133

<210> 924
<211> 216
<212> DNA
<213> Homo sapiens

<400> 924
gggtagagaa ccctgcggct gcgctttcgg tgcccgcgag aggcgctggg gcgcccggca 60
ggggcgctg cgggctccgg gagagggctg aagtggaaga tctcaggacc ggagccccgc 120
cgggggtccc ggatggtgga gggggccggg gtccgggcct gcaggatggt catggtcggg 180
tggcagctgc gagagtgaca catggtgagc cgagcg 216

<210> 925
<211> 649
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 441, 510, 603
 <223> n = A,T,C or G

<400> 925
 ggcccccaat tccagctgcc acaccaccca cggtgactgc attagttcgg atgtcataca 60
 aaagctgatt gaagcaaccc tctacttttt ggtcgtgagc cttttgcttg gtgcaggttt 120
 cattggctgt gttggtgacg ttgtcattgc aacagaatgg gggaaaggca ctgttctctt 180
 tgaagtaggg tgagtcctca aaatccgtat agttggtgaa gccacagcac ttgagccctt 240
 tcatggtggt gttccacact tgagtgaagt ctctctggga accataatct ttcttgatgg 300
 caggcactac cagcaacgtc aggaagtgtc cagccattgt ggtgtacacc aaggcgacca 360
 cagcagctgc aacctcagca atgaagatga ggaggaggat gaagaagaac gtcacgaggg 420
 cacacttgct ctcagtctta ncaccatagc agcccaggaa accaagagca aagaccacaa 480
 cgccggctgc gatgaggaag tagcccacgn tgacaaactg catggcactg gacgacagtg 540
 gccgaagat cttcagaaag gatgccccat cgattgacac ccagatgccc actgccaaaca 600
 ggnctgcacc acacagaaag atgagcaaat tgaagaggat catcatggt 649

<210> 926
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 926
 gggctctcaa actctcgaat gtacggcgca atgccacaat aaggttgatt gtggtgtttt 60
 tcatgtggca gtttctccag gggtagcagg tatggaatag ggtcacgggg ggcaaagagg 120
 gccagaaggt tgggcggcag gaactgggtc atcttgccaa gtgcgctagc gccctctctg 180
 ctctggcgtc tgtccggagg ctgcggcgcg ctgcggcgag ccctcagcaa caacaactcc 240
 tgcttcggct tccactccgg gggcggtccac gtccgtctga ttccgtcgcc cgctaagcga 300
 gcgcaccaga ccgctgctca gcgtcgacgc ggcgcgaat t 341

<210> 927
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 265, 298
 <223> n = A,T,C or G

<400> 927
 gcggccgcga cgctggtttt gcattcttcag gagacgctcg tagccctcgc gcttctcttc 60
 ggccaattcg cggaagaagt ggctcaogcc ttccagagcc acatcatcgc ggtcgaaata 120
 gaagcccaga gagaggtagg tgtaggaggc ctgcaggtag aaattgacca ggctgttgac 180
 ggctgcctcc acgtcggttg aataattctg acgaatctgg gagctcatgg ttggttgga 240
 agaaggagct aaccacaaaa acgngctgg caggctccag aagcaggaga tggccganaa 300
 gatggtcccg gaggttgcaa gcggagagga aatcggaggg cggtcggagg ctggaagaga 360
 gtccccgat ctgttccgtc caaacactgt tgaagcaaga gacagaccgc cggtcgacgc 420
 ggccgcgaat t 431

<210> 928
 <211> 538
 <212> DNA

<213> Homo sapiens

<400> 928

```
gtggcctgca aggccgcgga cagggcgagc accgagtcgt acattttgca gctcatcatc 60
cccggtgctct gcgtgacgca gtccatccac agccccttgt acatggcctg ggccgtgatg 120
atgttgtcac ccgcatagga gctcatctgc cactgcggga tggcggtgca ggccaccaga 180
cccacccagc ccagcagggc catggagaag ccagcgaact gcaggccoga attggccatt 240
tcgcacctca gaaaacactg ggggcgcggg gcgggagacc ctacagtaaa aaaaacgaca 300
cttggggggc agccccacaa aagaaaactt gaggtggagt tttccggtca cccaaagaga 360
caaaaagggg ttggggccagg tgaatgcaaa tcttgtcacc aaactacaca caaatcgacc 420
cctccagtga agcgatggcc tcgcggcaca gggagtagga tacgccggga ggggtggttc 480
agacaaaatt ggtggtcccc gaaggccagg cggttcctc cgggcgctct cggcgacc 538
```

<210> 929

<211> 69

<212> DNA

<213> Homo sapiens

<400> 929

```
ctcctcgacc accagcttgc actggcagta gttgagcagc agcggcgtga tctgcttgtc 60
cagctggat 69
```

<210> 930

<211> 544

<212> DNA

<213> Homo sapiens

<400> 930

```
gctttctcct tcttatagac gttccggacg ggcgatgaccg gtccgggtcag ctgggtggcc 60
agtttcagtt cttcagcaga actgtctccc ttcttggggg ccgagggctt cctggggaag 120
aggatgagtt tggagcggta ctcttcagc cgtctgcacgt tggcctgcag ggactccgtg 180
gacttgttcc gctcctcgg atccacagaa atgcgatgg tccgggccac cttcttgtga 240
atgcggcca ccctgagctc ctccagctg aagccgcggc cggcgcgac cttcgtgtgg 300
taccgaaccg tggggcagcg cacgatgggc cggatgggac ccgacgggg gcgcggggcg 360
atgcggcgcg ccttggcttg ccgggcctta cgtctgcgga tcttacgggc cggctggttg 420
aaccacgtgg ccacgcgcc ctgccagtc ttgtggaagt ggggcttcaa gaccatgcca 480
ttccggctgg gcgccatggc tgccacggc cctgcggctc ctgcggtcga cgcggcccg 540
aatt 544
```

<210> 931

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 538

<223> n = A,T,C or G

<400> 931

```
gttgctgcag tggcttgggc gtcaggaggc tcaactgaggg ggccacatga cccagccag 60
tgacagtgca gtggaggccg ttggggaagg aggcgttggc tgcaggagg cagatgggcc 120
ggatgtagcg ggagaagggt atgggtctgc tgagttggag gagtgcaatg tcgccctggg 180
agccctcctg gaggtagctg ggggtgggga tgatgtcctt cagggtgctg accttggcgt 240
```

```

cctcggagta ggagtctagc tgggtgggccc ccagcttgac ctcataggct tctttgtggt 300
gctcgtctggg gaagcagtga gcagctgaca gcacccactg ctcagacacg agagagccac 360
cacacacatg gacgccttca taggtgatgc tgacctgcca gggccactga ccggcgactg 420
cactgctgcc acctgtgatg cgtgcttggg gggccacacc gcagggagct tctgcccctt 480
ccgctcctgt ccccgaccgg agtaatccaa gatagagcag aatggccaca gccccanct 540
gcccaggccc caggaccccc ttctgggcca tggcccagga caagggcccc tggggc 596

```

```

<210> 932
<211> 153
<212> DNA
<213> Homo sapiens

```

```

<400> 932
tctgtgctgg ggtctgggct ccgtggagag atgtgtaggg gtaatgagaa attgatcagc 60
aatgagaggt ggactctgag ccacctccct gaccctgaat cattcaagcg aggagcagag 120
gagctcttga ctggggggacg gggatgtgag gat 153

```

```

<210> 933
<211> 112
<212> DNA
<213> Homo sapiens

```

```

<400> 933
tcaaacttgc cattgttaaa agcagccaca ttttggacot gcagtttcct cagaaatagt 60
taggattctg tgtcgacgcg gccgcgaatt ccaccacaot ggactagtgg at 112

```

```

<210> 934
<211> 74
<212> DNA
<213> Homo sapiens

```

```

<400> 934
gtggccatcg agtccccatc ctggtcggcc acccggaaac gccgctcgtc ccgaggtcga 60
cgcgcccgcg aatt 74

```

```

<210> 935
<211> 380
<212> DNA
<213> Homo sapiens

```

```

<400> 935
gcggccgcca tcttggtcct tttccaccat tttcagcccc tccagggtct ggaggacccg 60
gcggccacac ctcttggagc ctcggtgtaa gtggctgggc atgacgccgt ttctctgacg 120
tccccatag atcttggtea tggagccaac ccagcgcca ccccgaggt acaggtgccg 180
cgctgtggaa gcagctcgcg tgtagaacca gttctcatcg tagggagcaa gctctttgtg 240
cttgccagc ttgacgggat ccacccattc ggggaatttc agcttcccgg actttttgag 300
gaaggctgcc agagctctga cgaactcctg ctggttcacg tcttttacag taactccagg 360
catcgtgcgg cctccgcgcg 380

```

```

<210> 936
<211> 155
<212> DNA
<213> Homo sapiens

```

<400> 936
 ctggcgcttt gaggatgggt tcctggaccc tgattacccc cgaaatatct ctgacggctt 60
 cgatggcatc ccggacaacg tggatgcagc cttggccctc cctgcccata gctacagtgg 120
 ccgggagcgg gtctacttct tcaaggggaa acagt 155

<210> 937
 <211> 213
 <212> DNA
 <213> Homo sapiens

<400> 937
 gaggcggaga ggatcatgtc cggaactgc ggggtagtag cgatctgggt taccagccg 60
 ttgtggccct tgagggtgcc acgaagggtc atctgctcag tcatggcggc ggcgagagcg 120
 tgtgtcgctg cagcgacgag gatggcactg gatggcttag agaaactagc accacaacct 180
 ctctgccgc cgccgtcgac gcggccgcga att 213

<210> 938
 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 938
 gggtcggtca gggctgaaga cctgcccagg cacacaactc accacggccg gtagccatt 60
 ctgcaggtg acattcttca tggggtccag tgacacctg gggcccagct tgcagctgga 120
 gatgtgggcc tctgtgccgg tgcagtccat ggagaatggc cagtagcgct gcttcctccg 180
 tgaggcaaac attttgtaca ctttgggtatt gtatgtctc tccccaggga agccaaacat 240
 gccgcagacc acgcgggaat t 261

<210> 939
 <211> 228
 <212> DNA
 <213> Homo sapiens

<400> 939
 gctcaggctc caaagccagc aggaagagg tagctcggga cgtggagccg ccgcccaggt 60
 gcgccaggac cacctcggcc gtcaccttag ccagggtggct gcttaggtcc actgtgcgct 120
 tcacgtcctc attgatcagc ggcggtgcct cggaggaggc gctgcccggc gccggggccc 180
 aagtcccaag caacaggagc agaaacaagc cggcggctgg cgcgtcga 228

<210> 940
 <211> 97
 <212> DNA
 <213> Homo sapiens

<400> 940
 tccttcaagt atgcctgggt gctggacaag ctgaaggcgg agcgtgagcg cggcatcacc 60
 atcgacatct cctcttgaa gtccgagacc accaagt 97

<210> 941
 <211> 200
 <212> DNA
 <213> Homo sapiens

<400> 941

```

ggacccaggg gcacaggctc ccagatgata gcccctctct gaatgagcac ccaggcaaca 60
cagtcggggg ctgtgtgtag caaacctgtc agcagctgcc tcctgggaca accaccccct 120
tacatgctat ctatctacca gacaaatgaa agctcttctt accccatctc ccaggcaccc 180
cccagcaagg gctctgaatt                                     200

```

<210> 942

<211> 209

<212> DNA

<213> Homo sapiens

<400> 942

```

gaggcgagga ggatcatgtc cggaactgc ggggtagtag cgatctgggt taccagccg 60
ttgtggccct tgagggtgcc acgaagggtc atctgctcag tcattggcggc ggcgagagcg 120
tgtgtcgtcg cagcgacgag gatggcactg gatggcttag agaaactagc accacaacct 180
ctctgccgcg gtcgacgcgg ccgcgaatt                                     209

```

<210> 943

<211> 130

<212> DNA

<213> Homo sapiens

<400> 943

```

gtaaggagcc caagaaaaag tgatgcggcc tggcagactc gccatcccc aacgacacag 60
ggcaggacag cagaggacgt gctgggatta aacacattcc ccctcaaaaa aaaaaaaaaa 120
aaaaaaaaaa                                     130

```

<210> 944

<211> 563

<212> DNA

<213> Homo sapiens

<400> 944

```

gacagtccca gtactctttg ctcagctttc ggggcgggcc tcgtttccgc ttcccggtgt 60
tgggatcccc cttcttgtag tcacgaaaac catcgctggg gaagagcttg ccatcagtgg 120
gatccagggtc cacgtcactt ccacgggagt ctgaggagtg ggagctccga gaagcaccag 180
tcctgcggtg ggagacgtca gagctgccgg gggagggggc tcctgcgcca cagctgccgg 240
ggtggtaggg gctggcttgc tgaccgtcgt ccagcagctc ctgggcaaag gggctgccct 300
ggtcaaaggg ccctgggtct agggcctcct ggaaggccat gccatccttc tccagcagct 360
caatgatcca actgagctca tcagaagagc tggaagttag gtctcgagc tgggcatgga 420
gttgggtccc cagaggccca aagaccagac gcagctcctc aagggcacaa ttgcagaggg 480
tggcgccatc catgtcacat cgtgagaagt caatggcgct tgcgtcgtac ttgttcttct 540
ccatttggtg gctgatccag tcc                                     563

```

<210> 945

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 629

<223> n = A,T,C or G

<400> 945

```

gctgagcccc ttactgctcc tcccaccaat gggctccctc acaccagga caggactaag 60
agggagctgg cggagaatgg aggtgtcctg cagctgggtg gccagagga gaagatgggc 120
ctcccgggct cagactcaca gaaagagctg gcctgaccac caggcacctc actggcactg 180
ctgacccatc ccagaaacac aatctcaggg acccgagcag ctccaaggac gagaggatac 240
agcagacaca acctaataga gagggcgccct gcagccttaa cctccacggc cttcgatact 300
tatgcaagcc tgggtgttgc cctgtcctca gagtcatcct gcgctcatgc cttttcccg 360
atgggttcac ctctggcagt tgccgcttca gtcttggcct tagcctcatc ttgaagtggg 420
tagctggcgg gagagggtgg ctgcgcccc cgtctggcct gaggtgcag agttgggagc 480
aggacacctc acctgagttt catTTTTTTT catgtccaaa ccatgcacat actatagtcc 540
agaatcaaag cacttttgaa aagtggctgc atggccatcc tccagggccc aggaagtgtc 600
attccaaggg cctgtttaca tggcagcana atccatc 637

```

```

<210> 946
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<400> 946
ggcgcgggct cctctccctt cggtgcccc gatgaggagc aagcggctcc cggggaagct 60
ggcgcgctcg ccggtaccg cggcgagcac ttaggaaggc gcgggggtggc cagttcacag 120
ctgcccgctc caagtggggg gaggcgaatt ggagaggagg aggaggggag gaaaaagagc 180
aaaagtgggg gcgcttgac cccttctctt ctctcctgc aaagaaaagt ttccgggggt 240
gaaactggcg agtctccgc ccaactgaagt ttccagtcag ttccgaggtc gacgcggccg 300
cgaatt 306

```

```

<210> 947
<211> 71
<212> DNA
<213> Homo sapiens

```

```

<400> 947
ggtccagagc tcccaggttt ccagggttgc gtccctccag tcccagagct cccaggggtt 60
cggtttccag t 71

```

```

<210> 948
<211> 575
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 264, 344
<223> n = A,T,C or G

```

```

<400> 948
gcggccgccc tttttttttt tttttgtcag caaaaatctt ttttaataaga gagtaggatc 60
cagggttagt ttttgtagcc tcggctggcc cgtcggcctc tggcacgctc gaacttccg 120
cccttgagc ggacgtaggg tttggtgtgg ctgtgcggg ttcttggggc cttgccgaaa 180
tgccggtaca cctctcgcc cttgcgagga ccgagagca ggacagtgc acagccctta 240
ggggagtcca ggccagctg gtcnaaagtg aggatcttgc cccctgcct gaggatgcg 300
ctgcggggcc ggctggtcac gcgcagtgc cataccttca gttnggtac ctctgaacc 360
cgcacatcat cagttatggg cccacaacc acggcgtct tgttttccg gccaggaagc 420
ttcatcttcc ggatcatccg ggaaaggagc agaggcgcc ggttggtgc actcataaac 480
aacctcttca acacaacctg gttgaatgtg gagttggttc ttctggccag aaacctgtat 540

```


aacttgacca acagcctcag gtagatatcc tggct 575

<210> 949
 <211> 294
 <212> DNA
 <213> Homo sapiens

<400> 949
 ggggtttcca cgtagcccac aatgcccaca accaccatgg gtggtgtctc tacaatggtc 60
 acagcctcca ccacctcctt cttgttcacc ttggatcccg gcctgtcgac ttcccgcacg 120
 atgtgagtca tgccagcctt gtatcccagg aaggctgtga ggtggaccgg cttggacggg 180
 tcatccttag ggaagctctt caccttccca cgatgcctgc tgctgcgctt ccgaggcagg 240
 aagccgaggg acccatgtct gggagcggag aactttctgt gagacatcac gcca 294

<210> 950
 <211> 693
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 556, 676
 <223> n = A,T,C or G

<400> 950
 ggcccccaat tccagctgcc acaccaccca cgggtgactgc attagttcgg atgtcataca 60
 aaagctgatt gaagcaaccc tctacttttt ggtcgtgagc cttttgcttg gtgcaggttt 120
 cattggctgt gttggtgacg ttgtcattgc aacagaatgg gggaaaggca ctgttctctt 180
 tgaagtaggg tgagtcctca aaatcogtat agttggtgaa gccacagcac ttgagccctt 240
 tcatggtggt gttccacact tgagtgaagt cttcctggga accataatct ttcttgatgg 300
 caggcactac cagcaacgtc aggaagtgtc cagccattgt ggtgtacacc aaggcgacca 360
 cagcagctgc aacctcagca atgaagatga ggaggaggat gaagaagaac gtcacgaggg 420
 cacacttgct ctcagtttta gcaccatagc agcccaggaa accaagagca aagaccacaa 480
 cgccggctgc gatgaggaag tagcccacgt tgacaaactg catggcactg gacgacagtg 540
 gccgaagat cttcanaaag gatgccccat cgattgacac ccagatgcc actgccaaca 600
 gggctgcacc acacagaaag atgagcaaat tgaagaggat catcatggtc ttaatgaagc 660
 tgaagcactg catggnngct cctgttcagg gct 693

<210> 951
 <211> 607
 <212> DNA
 <213> Homo sapiens

<400> 951
 gtggcctgca aggccgcgga cagggcgagc accgagtcgt acattttgca gctcatcatc 60
 cccgtgctct gcggtgacgca gtccatccac agccccttgt acatggcctg ggcggtgatg 120
 atgttgtcac ccgcatagga gctcatctgc cactgcggga tggcggtgca ggccaccaga 180
 cccacccagc ccagcagggc catggagaag ccagcaact gcaggccga attggccatt 240
 tccgccctca gaaaacactg ggggcgcggg gcgggagacc ctacagtaaa acaaacgaca 300
 cttggggggc agccccacaa aagaaaactt gaggtggagt tttccggtca cccaaagaga 360
 caaaaagggt ttgggcccagg tgaatgcaaa tcttgtcacc aaactacaca caaatcgacc 420
 cctccagtga agcgatggcc tcgcggcaca gggagtagga tacgccggga ggtggttcc 480
 agacaaaatt ggtggtcccc gaaggccagg cggttccctc cgggcgctct cggcgaccct 540
 aggcaacaaa aaggtggagg ggccgtctgg gcgcgtttct gagcgcggc aagtcccaaa 600

gtatcct

<210> 952

<400> 952

<210> 953

<400> 953

<210> 954

<400> 954

<210> 955

<400> 955

<210> 956

<400> 956
 gcggccgcac gtgtaggcaa agaagcctgt gtccggcctc cagaccatgt tggcccgccc 60
 attcccgcctg taaccgaaga cagccttcag acgcagccac ccaccgctgg cgggagggcg 120
 gcaagtgccc ttggcagagt gggggctgca gctgaccctg gcaggcgtga aggccttgca 180
 ggaagccagg taggtggtgc gtggggcccc cgaatt 216

<210> 957
 <211> 62
 <212> DNA
 <213> Homo sapiens

<400> 957
 ccagtgggag gctccccacc ttgtagatga acagcccctg gagaactacc tggatatgga 60
 gt 62

<210> 958
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 958
 ggattcgggc atattggaat tgctgttcct gatgtataca gtgcttgtaa aaggtttgaa 60
 gaactgggag tcaaatttgt gaagaaacct gatgatgga aaatgaaagg cctggcattt 120
 attcaagatc ctgatggcta ctggattgaa attttgaatc ctaacaaaat ggcaacctta 180
 atgtagtgtc gtgagaatt 199

<210> 959
 <211> 212
 <212> DNA
 <213> Homo sapiens

<400> 959
 gaggcggaga ggatcatgtc cgggaactgc ggggtagtag cgatctgggt taccagccg 60
 ttgtggccct tgagggtgcc acgaagggtc atctgctcag tcatggcggc ggcgagagcg 120
 tgtgtcgctg cagcgacgag gatggcactg gatggcttag agaaactagc accacaacct 180
 ctctgcccgc cgcgtcgacg cggccgcgaa tt 212

<210> 960
 <211> 177
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 79
 <223> n = A,T,C or G

<400> 960
 gacattttat gacctctccc aataggggca gaggtgagca cccctggtga aaagttaaga 60
 ctcaagtgag ataaatacnc caagaagagc tgtggcttct ttactggtg tctcagaaa 120
 ggctgtgagc agtggttggtg gcatacctgt cacagcatct agcaaagcac ctgaatt 177

<210> 961

<211> 490
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 203, 296
 <223> n = A,T,C or G

<400> 961
 gggcgtcctg gtgcttacca cctggaaact ggtgaggtgg tgggagaact cctggtggac 60
 cctagtggaa gccttccagt aatttcttga agctgagcgc tcaggtgagt agggcgacat 120
 ctggtggccg gttgttgaag gtcattgcag agaggaagga agccgaggag gggagcctgc 180
 agtgagggcg tcctgggggt ctncggttct caccaccctt gggccacgcc gtctagtcca 240
 cacctgagga gttggtcagg tagaaggggc ggatgaccgt gcggaagccg ttgaantgcc 300
 ctgccgggca ggggaaggag gaggtgctct tcgagctgtt ggtgtccagg gcaactgggaa 360
 tcgcagcctt ccagccctcg aaatcggtga cgtctgccac gaagagccct tcgcagagca 420
 tcagggtttt gttttcgtag gcaatggtgc gatctgagcc gccagacttg gtgaggccca 480
 ggacagggag 490

<210> 962
 <211> 159
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 53, 80, 82, 90
 <223> n = A,T,C or G

<400> 962
 gggtcggccc ggggtggttgc ggccacagcg cagcggcgga gagcggcgcc cancatgacg 60
 gcgatggcgg cgcgcgggcn gnggacagan agaagccggt gtaagctcgc gggttgctcc 120
 ggagcgggag ggggcccggac gtcgacgcgg ccgcgaatt 159

<210> 963
 <211> 217
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 79, 80
 <223> n = A,T,C or G

<400> 963
 gggtagagaa ccctgagggt gcgctttcgg tgcccgcgag aggcgctggg gcgcccggca 60
 ggggcccgtg cgggctccnn gagagggtcg aaggtgaaga tctcaggacc ggagccccgc 120
 cggggtcccg ggatggtgga gggggccggg gtcggggcct gcaggatggt catggtcggg 180
 tggcagctgc gagagtgaca catggtgagc cgagcgt 217

<210> 964
 <211> 540
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 484

<223> n = A,T,C or G

<400> 964

```
gtggcctgca aggcgcgga cagggcgagc accgagtcgt acattttgca gctcatcatc 60
cccggtgctct gcgtgacgca gtccatccac agccccttgt acatggcctg ggccgtgatg 120
atgttgctcac ccgcatagga gctcatctgc cactgcggga tggcggtgca ggccaccaga 180
cccacccagc ccagcagggc catggagaag ccagcaact gcaggcccga attggccatt 240
tccgccctca gaaaacactg ggggcgcccg gcgggagacc ctacagtaaa acaaacgaca 300
cttggggggc agccccacaa aagaaaactt gaggtggagt tttccggtca cccaaagaga 360
caaaaagggg ttgggccagg tgaatgcaaa tcttgtcacc aaactacaca caaatcgacc 420
cctccagtga agcgatggcc tcgcggcaca gggagtagga tacgccggga ggggtggttcc 480
aganaaaatt ggtgggtccc gaaggccagg cggttccctc cgggcgctct cggcgacctt 540
```

<210> 965

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 299, 307

<223> n = A,T,C or G

<400> 965

```
gccacagtg gcttgtttcc gcagtgcgcg gccgtcagca cccaactctg gtccaccagg 60
acaccgcgc agtggaacga gagggcgttg aagagcgaga cctgccaggg ctgcgagccg 120
cgcgcgcaag gggcgccata ggcttcgggg tccaagcgcg tgtcgttttg ggggagcagc 180
gccgcctctg cggcccagag ttgcgccatc agcagcgga gcagcttcgc cagagcccgg 240
gcgccagagg cggcggagag gtggaggtgc ggagctctca tggccaggat ctgggagtn 300
ccgatanga gaggaggagg g 321
```

<210> 966

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 238

<223> n = A,T,C or G

<400> 966

```
ggtggacacc accctcaaga gcctgagcca gcagatcgag aacatccgga gccagaggg 60
cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa 120
gagtggagag tactggattg accccaacca aggtgcaac ctggatgcca tcaaagtott 180
ctgcaacatg gagactggtg agacctgcgt gtacccact cagcccagtg tggccanaa 240
gaactggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat 300
gaccgatgga ttccagttcg agtatggcgg ccagggtccg gaccctgccg atgtggccat 360
```

```

ccagctgacc ttctctgcgcc tgatgtccac cgaggcctcc cagaacatca cctaccactg 420
caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg ccctgctcct 480
ccagggctcc aacgagatcg agatccgcgc cgagggcaac agccgcttca cctacagcgt 540
cactgtcgat ggctgcacga gtcacaccgg agcctggggc aagacagtga ttgaatacaa 600
aaccaccaag acctcccgcc tgcccatcat cgatgtggcc cc 642

```

```

<210> 967
<211> 650
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 571
<223> n = A,T,C or G

```

```

<400> 967
ggtggacacc acctcaaga gctgagcca gcagatcgag aacatccgga gccagaggg 60
cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa 120
gagtggagag tactggattg accccaacca aggttgcaac ctggatgcca tcaaagtctt 180
ctgcaacatg gagactgggtg agacctgcgt gtacccact cagcccagtg tggcccagaa 240
gaactggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat 300
gaccgatgga ttccagttcg agtatggcgg ccagggctcc gacctgccg atgtggccat 360
ccagctgacc ttctctgcgcc tgatgtccac cgaggcctcc cagaacatca cctaccactg 420
caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg ccctgctcct 480
ccagggctcc aacgagatcg agatccgcgc cgagggcaac agccgcttca cctacagcgt 540
cactgtcgat ggctgcacga gtcacaccgg nagcctgggg caagacagtg attgaataca 600
aaaccaccaa gacctccgcg ctgcccatac tcgatgtggc ccccttgga 650

```

```

<210> 968
<211> 629
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 571
<223> n = A,T,C or G

```

```

<400> 968
ggtggacacc acctcaaga gctgagcca gcagatcgag aacatccgga gccagaggg 60
cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa 120
gagtggagag tactggattg accccaacca aggttgcaac ctggatgcca tcaaagtctt 180
ctgcaacatg gagactgggtg agacctgcgt gtacccact cagcccagtg tggcccagaa 240
gaactggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat 300
gaccgatgga ttccagttcg agtatggcgg ccagggctcc gacctgccg atgtggccat 360
ccagctgacc ttctctgcgcc tgatgtccac cgaggcctcc cagaacatca cctaccactg 420
caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg ccctgctcct 480
ccagggctcc aacgagatcg agatccgcgc cgagggcaac agccgcttca cctacagcgt 540
cactgtcgat ggctgcacga gtcacaccgg nagcctgggg caagacagtg attgaataca 600
aaaccaccaa gacctccgcg ctgcccatac 629

```

```

<210> 969
<211> 222

```

<212> DNA
 <213> Homo sapiens

<400> 969
 gaatgtcagg ggtggttggg gctttggctg gtcctgggt ctctgtgtag agacctggag 60
 gcgcttggtt cttgggggtt tccaggattc cagcctcgta gctgatgtgc atgaggttct 120
 catccatgct ccacgggttc ttgggagtga ccgggatggg aatcccgtgt tgctttgcgt 180
 actccatcag gtcattgcgg cccttgaacc ggttgtagaa tt 222

<210> 970
 <211> 79
 <212> DNA
 <213> Homo sapiens

<400> 970
 gcagggggccg cctggccttg ctccgctcca cgaggaggcc gccaacccga gggccgcgac 60
 acggacggga agcaacgga 79

<210> 971
 <211> 111
 <212> DNA
 <213> Homo sapiens

<400> 971
 ggaaaatgca tctacccac ccaaccagca gcctcacttt aggctgcctt gtcccgggag 60
 cccattcgt cagccccacg cctcctccag gatccgggag cagctcgaat t 111

<210> 972
 <211> 609
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 571
 <223> n = A,T,C or G

<400> 972
 ggtggacacc accctcaaga gcttgagcca gcagatcgag aacatccgga gccagaggg 60
 cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa 120
 gagtggagag tactggattg accccaacca aggtcgcaac ctggatgcca tcaaagtctt 180
 ctgcaacatg gagactggtg agacctgctg gtacccact cagcccagtg tggcccagaa 240
 gaactggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat 300
 gaccgatgga ttccagttcg agtatggcg ccagggctcc gacctgccc atgtggccat 360
 ccagctgacc ttctgcgcc tgatgtccac cgaggcctcc cagaacatca cctaccactg 420
 caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg cctgctcct 480
 ccagggctcc aacgagatcg agatccgcgc cgagggcaac agccgcttca cctacagcgt 540
 cactgtcgat ggctgcacga gtcacaccgg nagcctgggg caagacagtg attgaatata 600
 aaaccacca 609

<210> 973
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 973
 ggggtttcca cgtagcccac aatgcccaca accaccatgg gtggtgtctc tacaatggtc 60
 acagcctcca ccacctcctt cttgttcacc ttggatcccg gcctgtcgac ttcccgcacg 120
 atgtgagtca tgccagcctt gtatcccagg aaggctgtga ggtggaccgg cttggacggg 180
 tcaccccttag ggaagctctt caccttccca cgatgcctgc tgctgcgctt ccgaggcagg 240
 aagccgaggg acccatgtct gggagcggag aactttctgt gagacatcac gcgtcgacgc 300
 ggccgcgaat t 311

<210> 974
 <211> 180
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 114, 127, 133, 138, 162
 <223> n = A,T,C or G

<400> 974
 gaggcggaga ggatcatgtc cggaactgc ggggtagtag cgatctgggt taccagaccg 60
 ttgtggccct tgagggtgcc acgaagggtc atctgtctag tcatggcggc ggcagagcgc 120
 tgtgtcnctg cancgacnag gatggcactg gatggcttag anaaactaga accacgtcga 180

<210> 975
 <211> 187
 <212> DNA
 <213> Homo sapiens

<400> 975
 gcaccagccc cggggactat gtgtctcagcg totcagagaa ctgcgcgctc tcccactaca 60
 tcatcaacag cagcggcccg cgcccgccgg tgccaccgtc gcccggcccag cctccgcccg 120
 gggtagcccc ctccagactc cgaataggag atcaagagtt tgattcattg cctgctttac 180
 tggaatt 187

<210> 976
 <211> 59
 <212> DNA
 <213> Homo sapiens

<400> 976
 ctggttccgc tgcatggacc tggacgggga cggcgccctg tccatgttcg agctcgagt 59

<210> 977
 <211> 66
 <212> DNA
 <213> Homo sapiens

<400> 977
 ggtccagagc tcccagggtt ccagggttgc gtccctccag tcccagagct cccagggttt 60
 cggttt 66

<210> 978

<211> 114
 <212> DNA
 <213> Homo sapiens

<400> 978
 ggagctgatg cggaaccgg gccactcgt gtaggagcgg ctgctgaagg cccgggggcc 60
 agaggtggac accttgtagg acttctgggt caccctgcga cgcggccgcg aatt 114

<210> 979
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 979
 gacattttat gacctctccc aataggggca gaggtgagca cccctggtga aaagttaaga 60
 ctcaagttagt ataaatacgc caagaagagc tgtggcttct ttcaactggtg tcttcagaaa 120
 ggctgtgagc agtgttggtg gcatacctgt cacagcatct agcaaagcac ctgaatt 177

<210> 980
 <211> 188
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 41
 <223> n = A,T,C or G

<400> 980
 ggagctgatg cggaaccgg gccactcgt gtaggagcgg ntgctgaagg cccgggggcc 60
 agaggtggac accttgtagg acttctgggt caccctgatg gacatggtag aggctggagt 120
 ggaggcaggc gggccgaacc aggcggagat cctagaagga ggcgagaagg tcgacgcggc 180
 cgccaatt 188

<210> 981
 <211> 184
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 91
 <223> n = A,T,C or G

<400> 981
 gggccccagg aggcgggtg ggcacaggcc atggcgaggg tggggcacaa gagccccaga 60
 ccccgcggc tttgcaactga tgggctgcgg ntgggcacag gccatagtga ggggggcatg 120
 agagccccag accgggcggc tttgcaactga tgagctgcag ggcaggtcga cgcggccgcg 180
 aatt 184

<210> 982
 <211> 98
 <212> DNA
 <213> Homo sapiens

tcgacgagct cagttaca

318

<210> 989

<211> 177

<212> DNA

<213> Homo sapiens

<400> 989

```
gacattttat gacctctccc aataggggca gaggtgagca cccctgggtga aaagttaaga 60
ctcagtgagt ataaatacgc caagaagagc tgtggcttct ttcactgggtg tcctcagaaa 120
ggctgtgagc agtgttggtg gcatacctgt cacagcatct agcaaagcac ctgaatt 177
```

<210> 990

<211> 144

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 11

<223> n = A,T,C or G

<400> 990

```
gtgagcacc ntggtgaaaa gttaagactc agtgagtata aatacgccaa gaagagctgt 60
ggcttctttc actggtgtcc tcagaaaggc tgtgagcagt gttggtggca tacctgtcac 120
agcatctagc aaagcacctg aatt 144
```

<210> 991

<211> 659

<212> DNA

<213> Homo sapiens

<400> 991

```
ggtggacacc accctcaaga gcttgagcca gcagatcgag aacatccgga gcccagaggg 60
cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa 120
gagtggagag tactggattg accccaacca aggctgcaac ctggatgcca tcaaagtctt 180
ctgcaacatg gagactgggtg agacctgcgt gtacccact cagcccagtg tggcccagaa 240
gaactgggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat 300
gaccgatgga ttccagttcg agtatggcgg ccagggctcc gacctgccg atgtggccat 360
ccagctgacc ttcttgccgc tgatgtccac cgaggcctcc cagaacatca cctaccactg 420
caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg cctgctcct 480
ccagggctcc aacgagatcg agatccgcgc cgagggcaac agccgcttca cctacagcgt 540
cactgtcgat ggctgcacga gtcacaccgg agcctggggc aagacagtga ttgaatacaa 600
aaccaccaag acctcccgcc tgcccatcat cgatgtggcc cccttgagcg ttggtgccc 659
```

<210> 992

<211> 226

<212> DNA

<213> Homo sapiens

<400> 992

```
tccgctgcac tgggtttgcc ggattcttgg gcttcccaca tactgcttca cattcaggaa 60
gtttatctcc aacagcctta tttatccact gcttcttctc atttaagggtg tatactccat 120
ctccttctgt gcgcagtttg tagtagttct tacactggta gcgaaccgag tgctccacat 180
```

agccatgtgc aatctcgggg ggcttcgggc agccgtcatc tgcgat

226

<210> 993
<211> 160
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 9, 15, 37, 41, 85, 87
<223> n = A,T,C or G

<400> 993
ctcgtgtnnng agcgncctgct gaaggcccg ggccanagg nggacacctt gtacgacttc 60
tgggtcaccc tgatggacat ggtanangct ggagtggagg caggcggggc gaaccaggcg 120
gagatcctag aaggagcgga ggtcgacgcg gccgcgaatt 160

<210> 994
<211> 622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 9
<223> n = A,T,C or G

<400> 994
nagcctganc cagcagatcg agaacatccg gagcccagag ggcagccgca agaacccccg 60
ccgcacctgc cgtgacctca agatgtgcc ctctgactgg aagagtggag agtactggat 120
tgaccccaac caaggctgca acctggatgc catcaaagtc ttctgcaaca tggagactgg 180
tgagacctgc gtgtacccca ctacgcccag tgtggcccag aagaactgg acatcagcaa 240
gaaccccaag gacaagaggc atgtctggtt cggcgagagc atgaccgatg gattccagtt 300
cgagtatggc ggccagggct ccgacctgc cgatgtggcc atccagctga ccttcctgcg 360
cctgatgtcc accgaggcct ccagaaacat cacctaccac tgcaagaaca gcgtggccta 420
catggaccag cagactggca acctcaagaa ggccctgctc ctccagggct ccaacgagat 480
cgagatccgc gccgagggca acagccgctt cacctacagc gtcactgtcg atggctgcac 540
gagtcacacc ggagcctggg gcaagacagt gattgaatac aaaaccacca agacctcccg 600
cctgcccata atcgatgtgg cc 622

<210> 995
<211> 158
<212> DNA
<213> Homo sapiens

<400> 995
aataagatatt tgccagaggg gaaggctcga ttgtgctgtt aataacttaa taatgacaaa 60
ataatgaggt gtatatgctt tacatgcaat gttatatagt gaattgttct gattcttaat 120
tgtaagtctg gtttttttat ctgtaagata attgtgtg 158

<210> 996
<211> 295
<212> DNA
<213> Homo sapiens

<400> 996

```
cggccgcgtc gactctcgga ggggagacgg caaatggcgg acttcgacac ctacgacgat 60
cgggcctaca gcagcttcgg cggcggcaga gggccccgcg gcagtgctgg tggccatggt 120
tcccgtagcc agaaggagtt gcccacagag cccccctaca cagcatacgt aggaaatcta 180
cctttcaata cggttcaggg cgacatagat gctatcttta aggatctcag cataaggagt 240
gtacggctag tcagagacaa agacacagat aaatttaaag gattctgcta tgtag      295
```

<210> 997

<211> 125

<212> DNA

<213> Homo sapiens

<400> 997

```
cggccgccct tttttttttt ttttttaagg ttttttggt gtaagtttat tcaatgcaaa 60
agaatcctct ccaattttac tgagggtggct gaccacgtcc acgaccaaatt ccgcctctaa 120
actgg                                             125
```

<210> 998

<211> 152

<212> DNA

<213> Homo sapiens

<400> 998

```
gagctgatgc gggaaccggg cccactcgtg taggagcggc tgctgaaggc ccgggggcca 60
gaggtggaca ccttgtagga cttctgggtc accctgatgg acatggtaga ggctggagtg 120
gaggcaggcg ggccgaacca ggcggagatc ct                                152
```

<210> 999

<211> 119

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 23, 29, 54, 76, 77

<223> n = A,T,C or G

<400> 999

```
taaagcaacc actaaaccac ctncagcang agaaagcagc agagagctct tcanacagct 60
cagactctga cagctnngag gatgatgaag ctctttctaa gccagctggt accaccaag 119
```

<210> 1000

<211> 209

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 6, 7

<223> n = A,T,C or G

<400> 1000

```
ccctcnngag gcggagagga tcattgtccg gaactgcggg gtagtagcga tctgggttac 60
```

```

ccagccgttg tggcccttga ggggtgccacg aaggggtcctc tgctcagtc tggcggcggc 120
gagagcgtgt gtcgctgcag cgacgaggat ggcactggat ggcttagaga aactagcacc 180
acaacctctc ctgcgctcgac gcggccgcg 209

```

```

<210> 1001
<211> 390
<212> DNA
<213> Homo sapiens

```

```

<400> 1001
gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
agccgcaaga accccgccc cactgcccgt gacctcaaga tgtgccactc tgactggaag 120
agtggagagt actggattga cccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtggt ggcccagaag 240
aactggtaca tcagcaagaa cccaaggac aagaggcatg tctggttcgg cgagagcatg 300
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
cagctgacct tctgcgcct gatgtccacc 390

```

```

<210> 1002
<211> 613
<212> DNA
<213> Homo sapiens

```

```

<400> 1002
gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
agccgcaaga accccgccc cactgcccgt gacctcaaga tgtgccactc tgactggaag 120
agtggagagt actggattga cccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtggt ggcccagaag 240
aactggtaca tcagcaagaa cccaaggac aagaggcatg tctggttcgg cgagagcatg 300
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
cagctgacct tctgcgcct gatgtccacc gaggcctccc agaaccatcac ctaccactgc 420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcttc 480
cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
accaccaaga cct 613

```

```

<210> 1003
<211> 639
<212> DNA
<213> Homo sapiens

```

```

<400> 1003
gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
agccgcaaga accccgccc cactgcccgt gacctcaaga tgtgccactc tgactggaag 120
agtggagagt actggattga cccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtggt ggcccagaag 240
aactggtaca tcagcaagaa cccaaggac aagaggcatg tctggttcgg cgagagcatg 300
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
cagctgacct tctgcgcct gatgtccacc gaggcctccc agaaccatcac ctaccactgc 420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcttc 480
cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
accaccaaga cctcccgccg gccatcctc gatgtggcc 639

```

<210> 1004
 <211> 85
 <212> DNA
 <213> Homo sapiens

<400> 1004
 ccgttattcg tcgtggctca agcccgccca cgccgccccca agggctcctc ccgacctccc 60
 ggcttgccgc tccggccact gcggg 85

<210> 1005
 <211> 636
 <212> DNA
 <213> Homo sapiens

<400> 1005
 gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
 agccgcaaga accccgcccc cacctgccgt gacctcaaga tgtgccactc tgactggaag 120
 agtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
 tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtgt ggcccagaag 240
 aactggtaca tcagcaagaa ccccaaggac aagaggcatg tctggttcgg cgagagcatg 300
 accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
 cagctgacct tcttgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420
 aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480
 cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
 actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
 accaccaaga cctcccgccct gcccatcatc gatgtg 636

<210> 1006
 <211> 629
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 468
 <223> n = A,T,C or G

<400> 1006
 gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
 agccgcaaga accccgcccc cacctgccgt gacctcaaga tgtgccactc tgactggaag 120
 agtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
 tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtgt ggcccagaag 240
 aactggtaca tcagcaagaa ccccaaggac aagaggcatg tctggttcgg cgagagcatg 300
 accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
 cagctgacct tcttgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420
 aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaangc cctgctcctc 480
 cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
 actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
 accaccaaga cctcccgccct gcccatcatc 629

<210> 1007
 <211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 248, 372
 <223> n = A,T,C or G

<400> 1007
 gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
 agccgcaaga accccgcccg cacctgccgt gacctcaaga tgtgccactc tgactggaag 120
 agtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
 tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtgt ggcccagaag 240
 aactggtnc a tcagcaagaa ccccaaggac aagaggcatg tctggttcgg cgagagcatg 300
 accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
 cagctgacct tinctgcgct gatgtccacc gaggctccc agaacatcac ctaccactgc 420
 aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcttc 480
 cagggctcca acgagatcga gatccgcgcc gagggaaca gccgcttcac ctacagcgtc 540
 actgtcgatg gctgcacgag tcacaccgga gcctg 575

<210> 1008
 <211> 62
 <212> DNA
 <213> Homo sapiens

<400> 1008
 cgatggagcg tgggtaggga gggccacag tgtccactcg ccgtgtgcga aggttgactc 60
 gg 62

<210> 1009
 <211> 180
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 154
 <223> n = A,T,C or G

<400> 1009
 gagctgatgc gggaaccggg cccactcgtg taggagcggc tgctgaaggc ccgggggcca 60
 gaggtggaca ccttgtagga cttctgggtc accctgatgg acatggtaga ggcaggagtg 120
 gaggcaggcg ggccgaacca ggcggagatc ctanaaggag cggaggtcga cgcggcccg 180

<210> 1010
 <211> 169
 <212> DNA
 <213> Homo sapiens

<400> 1010
 gaggcggcac aggtcacgca tggccagcac ggcagccatg gcgctgcgct cgctcatgtt 60
 tctcgccagg taggtctggg ccaggctctt gagtttgaag ctgctggccc cgggcacacg 120
 ctcccggatg agaggcaggg cagccaggaa gcccgagatg gcctcctgg 169

<210> 1011

<211> 170
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 78, 79
 <223> n = A,T,C or G

<400> 1011
 gagctgatgc gggaaccggg cccactcgtg taggagcggc tgctgaaggc ccgsggggcca 60
 gaggtggaca ccttgtanna cttctgggtc accctgatgg acatggtaga ggctggagtg 120
 gaggcaggcg ggccgaacca ggcggagatc ctagaaggag cggaggtcga 170

<210> 1012
 <211> 344
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 231, 235, 238, 245, 246, 251, 255, 263, 264, 270, 276, 302,
 313, 316, 317, 325
 <223> n = A,T,C or G

<400> 1012
 gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
 agccgcaaga accccgcccg cacctgccgt gacctcaaga tgtgccactc tgactggaag 120
 agtggagagt actggattga cccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
 tgcaacatgg agactgggtga gacctgcgtg taccocactc agcccagtgg nccanaanaa 240
 ctggnncatc ngcangaacc ccnnggacan gaggcntgtc tggttcggcg agagcatgac 300
 cnatggattc canttnnagt atggnggccca gggtccgac cctg 344

<210> 1013
 <211> 157
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 21, 22, 127, 136, 137
 <223> n = A,T,C or G

<400> 1013
 atagaacccc gccgcacct nncgtgacct caagatgtgc cactctgact ggaagagtgg 60
 agagtactgg attgaccca accaaggctg caacctggat gccatcaaag tcttctgcaa 120
 catgganact ggtganncct gcgtgtaccc cactcag 157

<210> 1014
 <211> 621
 <212> DNA
 <213> Homo sapiens

<400> 1014


```

tgcaacatgg agactggtga gacctgcgtg taccctcactc agcccagtggt ggcccagaag 240
aactggtaca tcagcaagaa ccccaaggac aagaggcatg tctggttcgg cgagagcatg 300
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
cagctgacct tcctgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480
cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
accaccaaga cctcccgcct gcccatcatc gatgtgg 637

```

<210> 1019

<211> 623

<212> DNA

<213> Homo sapiens

<400> 1019

```

gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
agccgcaaga accccgcccg cacctgccgt gacctcaaga tgtgccactc tgactggaag 120
agtggagagt actggattga ccccaaccaaa ggctgcaacc tggatgccat caaagtcttc 180
tgcaacatgg agactggtga gacctgcgtg taccctcactc agcccagtggt ggcccagaag 240
aactggtaca tcagcaagaa ccccaaggac aagaggcatg tctggttcgg cgagagcatg 300
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
cagctgacct tcctgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480
cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
accaccaaga cctcccgcct gcc 623

```

<210> 1020

<211> 233

<212> DNA

<213> Homo sapiens

<400> 1020

```

ggtagagaac cctgcggctg cgcttttcggt gcccgcgaga ggcgctgggg cgcccggcag 60
gggcccgtgc gggctccggg agagggtcga aggtgaagat ctcaggaccg gagccccgcc 120
ggggctcccg gatggtggag ggggcccggg tcggggcctg caggatggtc atggtcgggt 180
ggcagctgcg agagtgcac atggtgagcc gagcggaggt cgacgcggcc gcg 233

```

<210> 1021

<211> 180

<212> DNA

<213> Homo sapiens

<400> 1021

```

gagctgatgc gggaaccggg cccactcgtg taggagcggc tgctgaaggc ccggggggcca 60
gagggtggaca cttgttagga cttctgggtc accctgatgg acatggtaga ggcaggagtg 120
gaggcaggcg ggccgaacca ggcggagatc ctagaaggag cggaggtcga cgcggccgcg 180

```

<210> 1022

<211> 636

<212> DNA

<213> Homo sapiens

<400> 1022

```

gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
agccgcaaga accccgccc cactgcccgt gacctcaaga tgtgccactc tgactggaag 120
agtggagagt actggattga cccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
tgcaacatgg agactggtga gacctgcgtg taccocactc agcccagtgt ggcccagaag 240
aactggtaca tcagcaagaa cccaaggac aagaggcatg tctggttcgg cgagagcatg 300
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
cagctgacct tcctgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480
cagggtcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
accaccaaga cctcccgcct gcccatcatc gatgtg                                     636

```

<210> 1023

<211> 162

<212> DNA

<213> Homo sapiens

<400> 1023

```

aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctggggtt acccagccgt 60
tgtggccctt gaggttgcca cgaagggtca tctgctcagt catggcgccg gcgagagcgt 120
gtgtcgctgc agcgacgagg atggcacgctc gacgcggccg cg                                     162

```

<210> 1024

<211> 124

<212> DNA

<213> Homo sapiens

<400> 1024

```

tccactagtc cagtgtggtg gaattcgcg cgcgctcgac gccgagcagg aggcgccatc 60
atgggagtgg acatccgcca taacaaggac cgaaaggttc ggcgcaagga gcccaagagc 120
cagg                                              124

```

<210> 1025

<211> 635

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 618

<223> n = A,T,C or G

<400> 1025

```

gcccccaatt ccagctgcc aaccacccac ggtgactgca ttagttcggg tgtcatataa 60
aagctgattg aagcaaccct ctactttttg gtcgtgagcc ttttgcttgg tgcaggtttc 120
attggctgtg ttggtgacgt tgtcattgca acagaatggg ggaaaggcac tgttctcttt 180
gaagtagggg gagtcctcaa aatccgtata gttggtgaag ccacagcact tgagcccttt 240
catggtgggt ttccacactt gagtgaagtc ttctgggaa ccataatctt tcttgatggc 300
aggcactacc agcaacgtca ggaagtgtct agccattgtg gtgtacacca aggcgaccac 360
agcagctgca acctcagcaa tgaagatgag gaggaggatg aagaagaacg tcacgagggc 420
acacttgctc tcagtcttag caccatagca gcccaggaaa ccaagagcaa agaccacaac 480
gccggctgcg atgaggaagt agcccacgtt gacaaactgc atggcactgg acgacagtgg 540
cccgaagatc ttcagaaagg atgccccatc gattgacacc cagatgccca ctgccaacag 600

```

ggctgcacca cacagaanga tgagcaaatt gaaga

635

<210> 1026
<211> 355
<212> DNA
<213> Homo sapiens

<400> 1026
ccatctgctg ttttttctca gcaccttccg tcttttggtc aatacttgag acgacctcc 60
aagatgacct acgggtccct acaacatttt tataagcaac tgagagaaga ttctctccct 120
cattggataa ttcagctcct tgctcagtta cagacttcat gcaggctgcc atgtcatcat 180
atcgctcagc ctgctcggcc agtttgccct tctgaaccag ctcatTTTTA tccatgactg 240
gatgttctgt gtccggagtg ggtggtggcg gcggacggac gggctcagca gtctctgggc 300
ggcggcggcg gcagcagcgg cgaggctgag actctgtccc gtcgacggcg ccgcg 355

<210> 1027
<211> 148
<212> DNA
<213> Homo sapiens

<400> 1027
tgccaccctg gtgcccata ctgtggcctt ggtgcccagg aggggccaga gctggtgggt 60
gctggctgtt ctctccctc tggccctgag cccctggctc tggagctgcc ttagggggt 120
gaagggccat cccactgcca ttctccgg 148

<210> 1028
<211> 479
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 439
<223> n = A,T,C or G

<400> 1028
ggcgtcctgg tgcttaccac ctggaaactg gtgaggtggt gggagaactc ctggtggacc 60
ctagtggaa ccttccagta atttcttgaa gctgagcgt caggtgagta gggcgacatc 120
tggtggccgg ttgttgaagg tcattgcaga gaggaaggaa gccgaggagg ggagcctgca 180
gtgagggcgt cctgggggtc tccggttctc accacccttg ggccacgccg tctagtccac 240
acctgaggag ttggtcaggt agaagggggc gatgaccgtg cggaagccgt tgaagtggcc 300
tgccgggcag ggggaaggagg aggtgctctt cgagctgttg gtgtccaggg cactgggaat 360
cgcagccttc cagccctcga aatcggtgac gtctgccacg aagagccctt cgcagagcat 420
cagggccttg ttttcgtang caatggtgag atctgagccg ccagacttg tgaggccca 479

<210> 1029
<211> 64
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5, 6
<223> n = A,T,C or G

<400> 1029

```
gcgttnnatgt agttcttgag cacctcggga atgggcccct cggtcacggc tggcaccgcc 60
tggg                                             64
```

<210> 1030

<211> 531

<212> DNA

<213> Homo sapiens

<400> 1030

```
cctgtcagag tggcactggg agaagttcca ggaaccctga actgtaaggg ttcttcatca 60
gtgccaacag gatgacatga aatgatgtac tcagaagtgt cctggaatgg ggcccatgag 120
atggttgtct gagagagagc ttcttgtcct acattcggcg ggtatgggtct tggcctatgc 180
cttatggggg tggccgttgt gggcgggtgtg gtccgcctaa aaccatgttc ctcaaagatc 240
atgtgtgcc caacactggg ttgctgacca gaagtgccag gaagctgaat accatttcca 300
gtgtcatacc cagggtgggt gacgaaaggg gtcttttgaa ctgtggaagg aacatccaag 360
atctctggtc catgaagatt ggggtgtgga agggttacca gttggggaag ctcgctctgtc 420
tttttccttc caatcagggg ctcgctcttc tgattattct tcagggcaat gacataaatt 480
gtatattcgg ttcccgggtc caggccagta atagtagcct ctgtgacacc a          531
```

<210> 1031

<211> 518

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 443

<223> n = A,T,C or G

<400> 1031

```
cctgggtggg ggagcgaatg ggccgattcc accggatcct ggagcctggg ttgaacatcc 60
tcatccctgt gttagaccgg atccgatatg tgcagagtct caaggaaatt gtcacaaag 120
tgcttgagca gtcggctgtg actctcgaca atgtaactct gcaaactgat ggagtccttt 180
acctgcgcac catggaccct tacaaggcaa gctacgggtg ggaggaccct gagtatgccg 240
tcaccagct agctcaaaca accatgagat cagagctcgg caaactctct ctggacaaag 300
tcttccggga acgggagtc ctgaatgcc gacattgtga tgccatcaac caagctgctg 360
actgctgggg tatccgctgc ctccgttatg agatcaagga tatccatgtg ccaccccggg 420
tgaaagagtc tatgcagatg cangtggagg cagagcggcg gaaacgggac acagttctag 480
agtctgaggg gaccogagag tcggccatca atgtggca          518
```

<210> 1032

<211> 116

<212> DNA

<213> Homo sapiens

<400> 1032

```
aaatatattat gtggaattaa ttaaaggtag ttggctatat cgctatcatt tcattctttt 60
gacattatgt gaatatatta ctggaaaata agactaataa attgttaaaa gttttt    116
```

<210> 1033

<211> 241

<212> DNA

<213> Homo sapiens

<400> 1033

```
caagggtcat gatggcagga gtaatcagag gtgttcttgt gttgtgataa gggtaggag 60
gttaaaggag ccacttatta gtaatgttga tagtagaatg atggctaggg tgacttcata 120
tgagattggt tgggctactg ctgcagtgcc gccgatcagg gcgtagtttg agtttgatgc 180
tcacctgat cagaggattg agtaaaccgc taggctagag gtggctagaa taaataggag 240
g 241
```

<210> 1034

<211> 234

<212> DNA

<213> Homo sapiens

<400> 1034

```
ccacagctgg gcgcttcacc cagtggtaact ttgggtgcta ctccattgtg gcgggcgtgt 60
ttgtgtgcct gctggagtac ccccggggga agaggaagaa gggctccacc atggagcgct 120
ggggacagaa gcacatgacc gccgtggtga agctgttcgg gccctttacc aggaattact 180
atgttcgggc cgtcctgcat ctctgctct cgggtgccgc cggttcctg ctgg 234
```

<210> 1035

<211> 434

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 39, 42, 48, 113, 135, 137, 151, 185, 219, 228, 250, 254,
268, 271, 275, 307, 344, 355, 358, 369, 376, 404, 409, 416,
427

<223> n = A,T,C or G

<400> 1035

```
gtacaagctt tttttttttt tttttttttt ttttttttng gntacggnag cactttttatt 60
tttccttaca caatgacgtg ttgctggggc ctaatgttct cacataacag tanaaaacca 120
aaatttggtg tcatntnttc aaagaatcga naattgctga caaaaaaac cttacataaa 180
ttaanaatga atacatttac aggcgtaaat gcaaacgnt tccaactnaa agcaagtaac 240
agcccacggn gttntggcca aagacatnag ntaanaaagg aaactgggtc ctacggcttg 300
gacttttcaa ccctgacaga ccgcgaagac aaaacaactg gttnttgcca gcctntanag 360
aatcccana acactnagcc ctgacacgtt aataccctgc acanacana ggctgntggc 420
cacacanact cacc 434
```

<210> 1036

<211> 294

<212> DNA

<213> Homo sapiens

<400> 1036

```
aaagccatgg gaaccagat caccagatcc ggagcctgac tctagcccct gagccacctg 60
ttgccctaac accctgtctg actctctccc gctgcagcag ccagtcctc ctgcactcca 120
gcaactccag ccacagtcga tcttcagat ccttggaag tccagccaac tcttctcca 180
gcctccacag ccttggtcga gtgtccctgt gtacaagacc cagtgacttc caggctccca 240
gaaacccac cctaaccatg ggccaacca gaacaccca ctctccacca ctgg 294
```


<210> 1037
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 55, 56, 64, 65, 258, 314, 513
 <223> n = A,T,C or G

<400> 1037
 aaagatatga acagcttaat tttccgtgtg attatctaata taaaaaagaa aaacnaaaca 60
 agcnaaatgt tcaagttaaa aaaaaaacat accgggtgag caatgcacta aaattatcca 120
 catgaaaaca aatgggtctgt aatcttataa accaacatag catttcactg tcaacaatgt 180
 gaaaatttaa tatcttctca aacaggcata agatgaagaa gtgctatattt ttaattgtaa 240
 aaggaaactta tgtaatgnta aaattacatt ataatttttc attccgaatt gacaaatgat 300
 ttcaaaaaaca aggnatcaaaa gtttgactgc aaatagtaat gcaatataat ttcataaaaaa 360
 tccttcaatt tctatttttt tccttttctg tagttgacat atgaagacca cttcaatttc 420
 taaaaaaggg aaccattcca attttccttc cccaagaaaa tgtctcacia ttacaaagta 480
 gaaaaacagc cgttcataaa atgcaaaaaa aanttctgat tttatacatg aaataatttc 540
 tagatca 547

<210> 1038
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 1038
 ccactctgcc caggagctgc cgaccatcag gacgcctgca gacatttaca gagcctttgt 60
 tgatgtttgtg aatggagaat atgtccctcg caaatccatc ctgaagtctc gaagtagaga 120
 gaatagtgtg tgtagcgaca ctagtgaag cagtgtctgt gaatttgatg ataggcgagg 180
 agttttgagg agtatcagct gcgaagaagc cacttgacgt gacaccagtg agagcatttt 240
 ggaagaggaa ccacaagaaa atcaaaaagaa acttttgccc ttatcagtaa cacctgaggc 300
 tttttctgga actgttatag aaaaagaatt tgtatcacct tccttaacac cccccccagc 360
 cattgctcat cccgcactac ccactatttc agaacgaaag gaagttctgt tggaagcatc 420
 tgaagaaact ggaaagaggg tttcaaagtt t 451

<210> 1039
 <211> 533
 <212> DNA
 <213> Homo sapiens

<400> 1039
 ccaagcccgt gcacogtttt ttgtaaggta tctctttaag cgccctgggac cccaagcgag 60
 agtccgaaat tagcagagcg ctaaaaggag gggcccgag gcagtggggc tttgagctag 120
 aagcctcttt ttacctgctt gacaggtaat ttctgtaatt ggttgatgatt gaatttgata 180
 gggtagagaa ttaaatgagg gaagctgtgt atacttccta gtaagagcta ttatatgact 240
 gattacatta acatcatatg gaaaaaaatt gtcaaaaagta ctccgggaaa gcccttaaat 300
 agttggtaaa gtacagaaca catgattgtc aatatatgta aatacaggat gagctaggac 360
 agaggggccc ttctttcaca ccacttaaat tagttccac ttttaaccttg tttgagattg 420
 acttctggag agttaaatgc agatagactt aactctccta agtcaggtga gactgagagc 480
 tgactgctac aataattacg gagcccaaat gcagtaaaac agcctgtttt tca 533

<210> 1040

<211> 317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 149, 228
 <223> n = A,T,C or G

<400> 1040
 tgcctgctgg ggattactcg atcaaaacct tccttccttg gctacttccc ttccctcccg 60
 ggcttccctt ttgaggagct ggaggggtgg ggagctagag gccacctatg ccagtgtctca 120
 aggttactgg gagtgtgggc tgcccttgnt gcctgcaccc ttccctcttc cctctccctc 180
 tctctgggac cactgggtac aagagatggg atgctccgac agcgtctnca attatgaaac 240
 taatcttaac ccctgtgctg tcagatcccc tgtttctgga gtcacatcag tgaggaggga 300
 tgtgggtaag aggagca 317

<210> 1041
 <211> 407
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 45, 88, 184, 236, 238
 <223> n = A,T,C or G

<400> 1041
 ccaagacagt ccacttacat ggatcggtgc ttcaagcaat ttgtncaagc catggttgag 60
 catggacatg aactctctta acatgtantt ctttgggtgc attttgtctg aaccacaatt 120
 gtgaaggcag ctacagcttag tgcacaaatt ttaactgttg tatataaagc aaataagtca 180
 gcanatgggt gaagagggtcc agaatgatat gcaaaaacta ctttttagag aaacananca 240
 actttgtagc aacaaattaa atatatgtatt agattgttac ttacgtagat tttattttta 300
 ctatgcctta ccaagtacat ccttaaaaca agtagtatgt acatgaaatt gcacttaacc 360
 aaaactattg tgtaaaacaa atttttaatt cctcagggtt ttaattt 407

<210> 1042
 <211> 519
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 461
 <223> n = A,T,C or G

<400> 1042
 ccaccacacc caattccttg ctgggtatcat ggcagccgcc acgtgccagg attaccggct 60
 acatcatcaa gtatgagaag cctgggtctc ctcccagaga agtggtcctt cgccccgcc 120
 ctgggtgcac agaggctact attactggcc tggaaccggg aaccgaatat acaattttatg 180
 tcattgccct gaagaataat cagaagagcg agccctgat tggaaggaaa aagacagacg 240
 agcttcccca actggtaacc ctccacacc ccaatcttca tggaccagag atcttggatg 300
 ttcttccac agttcaaaag acccctttcg tcaccacccc tgggtatgac actggaaatg 360
 gtattcagct tctggcact tctggctcagc aaccagtggt tgggcaacaa atgatctttg 420

aggaacatgg ttttaggcgg accacaccgg cccacaacgg ncacccccat aaaggcatag 480
gccaaagacc ataccgcgg aatgtaggac aagaaagct 519

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<212> DNA
<213> Homo sapiens

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<222> 118, 119
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<210> 1046
<211> 136
<212> DNA
<213> Homo sapiens


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<210> 1050

<211> 3120

<212> DNA

<213> Homo sapiens

<400> 1050

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<210> 1051

<211> 1745

<212> DNA

<213> Homo sapiens

<400> 1051

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<210> 1052

<211> 1104

<212> DNA

<213> Homo sapiens

<400> 1052

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<210> 1053

<211> 480

<212> DNA


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<210> 1056

<211> 3311

<212> DNA

<213> Homo sapiens

<400> 1056

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accactacgg	tgaccccaac	cccaacaccc	accggcacac	agaccccaac	cacgacaccc	9660
atcaccacca	ccactacggt	gaccccaacc	ccaacaccca	cgggcacaca	gaccccaacc	9720
acgacaccca	tcaccaccac	cactacggtg	accccaaccc	caacacccac	cggcacacag	9780
accccaacca	cgacacccat	caccaccacc	actacggtga	ccccaacccc	aacacccacc	9840
ggcacacaga	cccaaccac	gacacccatc	acaccacca	ctacggtgac	cccaacccca	9900
acacccaccg	gcacacagac	cccaaccacg	acacccatca	ccaccaccac	tacggtgacc	9960
ccaaccccaa	cacccacogg	cacacagacc	ccaaccacga	cacccatcac	caccaccact	10020
acggtgaccc	caaccccaac	acccaccggc	acacagaccc	caaccacgac	acccatcacc	10080
accaccacta	cggtgacccc	aaccccaaca	cccaccggca	cacagacccc	aaccacgaca	10140
cccatcacca	ccaccactac	ggtgacccca	acccaacac	ccaccggcac	acagacccca	10200
accacgacac	ccatcaccac	caccactacg	gtgaccccaa	ccccaacacc	caccggcaca	10260
cagaccccaa	ccacgacacc	catcaccacc	accactacgg	tgaccccaac	cccaacaccc	10320
accggcacac	agaccccaac	caacgacccc	atcaccacca	ccactacggt	gaccccaacc	10380
ccaacaccca	cgggcacaca	gaccccaacc	acgacaccca	tcaccaccac	cactacggtg	10440

Thr Thr Phe Ile Asp Ser Val Glu Asp Ser Glu Ser Glu Glu Glu Glu
355 360 365

Glu Gly Lys Ser Ser Glu Thr Gly Lys Val Lys Thr Thr Ser Leu Thr
370 375 380

Glu Lys Lys Ala Ser Arg Arg Gln Lys Glu Ile Pro Phe Ser Tyr Leu
385 390 395 400

Val Gly Asp Ser Gly Lys Lys Lys Leu Val Lys His Gln Val Val His
405 410 415

Lys Thr Gln Glu Glu Glu Glu Thr Ala Val Pro Thr Ser Gln Gly Thr
420 425 430

Gly Thr Pro Cys Leu Thr Leu Cys
435 440

<210> 1060

<211> 230

<212> PRT

<213> Homo sapiens

<400> 1060

Met Asn Glu Met Tyr Leu Arg Cys Asp His Glu Asn Gln Tyr Ala Gln
5 10 15

Trp Met Ala Ala Cys Met Leu Ala Ser Lys Gly Lys Thr Met Ala Asp
20 25 30

Ser Ser Tyr Gln Pro Glu Val Leu Asn Ile Leu Ser Phe Leu Arg Met
35 40 45

Lys Asn Arg Asn Ser Ala Ser Gln Val Ala Ser Ser Leu Glu Asn Met
50 55 60

Asp Met Asn Pro Glu Cys Phe Val Ser Pro Arg Cys Ala Lys Arg His
65 70 75 80

Lys Ser Lys Gln Leu Ala Ala Arg Ile Leu Glu Ala His Gln Asn Val
85 90 95

Ala Gln Met Pro Leu Val Glu Ala Lys Leu Arg Phe Ile Gln Ala Trp
100 105 110

Gln Ser Leu Pro Glu Phe Gly Leu Thr Tyr Tyr Leu Val Arg Phe Lys
115 120 125

Gly Ser Lys Lys Asp Asp Ile Leu Gly Val Ser Tyr Asn Arg Leu Ile
130 135 140

Lys Ile Asp Ala Ala Thr Gly Ile Pro Val Thr Thr Trp Arg Phe Thr

Arg Asn Leu Cys Glu Trp Met Arg Lys Pro Ala Gln Gln Ser Leu Gly
165 170 175

Ser Gln Val Lys Thr Arg Thr Lys Asp Lys Tyr Arg Val Val Tyr Thr
180 185 190

Asp His Gln Arg Leu Glu Leu Glu Lys Glu Phe His Tyr Ser Arg Tyr
195 200 205

Ile Thr Ile Arg Arg Lys Ala Glu Leu Ala Ala Thr Leu Gly Leu Ser
210 215 220

Glu Arg Gln Val Lys Ile Trp Phe Gln Asn Arg Arg Ala Lys Glu Arg
225 230 235 240

Lys Ile Asn Lys Lys Lys Leu Gln Gln Gln Gln Gln Gln Pro Pro
245 250 255

Gln Pro Pro Pro Pro Pro Gln Pro Pro Gln Pro Gln Pro Gly Pro
260 265 270

Leu Arg Ser Val Pro Glu Pro Leu Ser Pro Val Ser Ser Leu Gln Ala
275 280 285

Ser Val Ser Gly Ser Val Pro Gly Val Leu Gly Pro Thr Gly Gly Val
290 295 300

Leu Asn Pro Thr Val Thr Gln
305 310

<210> 1062

<211> 237

<212> PRT

<213> Homo sapiens

<400> 1062

Met Ala Gly Val Ser Ala Cys Ile Lys Tyr Ser Met Phe Thr Phe Asn
5 10 15

Phe Leu Phe Trp Leu Cys Gly Ile Leu Ile Leu Ala Leu Ala Ile Trp
20 25 30

Val Arg Val Ser Asn Asp Ser Gln Ala Ile Phe Gly Ser Glu Asp Val
35 40 45

Gly Ser Ser Ser Tyr Val Ala Val Asp Ile Leu Ile Ala Val Gly Ala
50 55 60

Ile Ile Met Ile Leu Gly Phe Leu Gly Cys Cys Gly Ala Ile Lys Glu
65 70 75 80

Ser Arg Cys Met Leu Leu Leu Phe Phe Ile Gly Leu Leu Leu Ile Leu
85 90 95

Leu Leu Gln Val Ala Thr Gly Ile Leu Gly Ala Val Phe Lys Ser Lys
 100 105 110

Ser Asp Arg Ile Val Asn Glu Thr Leu Tyr Glu Asn Thr Lys Leu Leu
 115 120 125

Ser Ala Thr Gly Glu Ser Glu Lys Gln Phe Gln Glu Ala Ile Ile Val
 130 135 140

Phe Gln Glu Glu Phe Lys Cys Cys Gly Leu Val Asn Gly Ala Ala Asp
 145 150 155 160

Trp Gly Asn Asn Phe Gln His Tyr Pro Glu Leu Cys Ala Cys Leu Asp
 165 170 175

Lys Gln Arg Pro Cys Gln Ser Tyr Asn Gly Lys Gln Val Tyr Lys Glu
 180 185 190

Thr Cys Ile Ser Phe Ile Lys Asp Phe Leu Ala Lys Asn Leu Ile Ile
 195 200 205

Val Ile Gly Ile Ser Phe Gly Leu Ala Val Ile Glu Ile Leu Gly Leu
 210 215 220

Val Phe Ser Met Val Leu Tyr Cys Gln Ile Gly Asn Lys
 225 230 235

<210> 1063

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1063

Met Ala Ala Arg Ala Leu Cys Met Leu Gly Leu Val Leu Ala Leu Leu
 5 10 15

Ser Ser Ser Ser Ala Glu Glu Tyr Val Gly Leu Ser Ala Asn Gln Cys
 20 25 30

Ala Val Pro Ala Lys Asp Arg Val Asp Cys Gly Tyr Pro His Val Thr
 35 40 45

Pro Lys Glu Cys Asn Asn Arg Gly Cys Cys Phe Asp Ser Arg Ile Pro
 50 55 60

Gly Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Ala Glu Cys Thr Phe
 65 70 75 80

<210> 1064

<211> 323

<212> PRT

<213> Homo sapiens

<400> 1064

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Met Ala Tyr Val Pro Ala Pro Gly Tyr Gln Pro Thr Tyr Asn Pro Thr
      5                                10                                15

Leu Pro Tyr Tyr Gln Pro Ile Pro Gly Gly Leu Asn Val Gly Met Ser
      20                                25                                30

Val Tyr Ile Gln Gly Val Ala Ser Glu His Met Lys Arg Phe Phe Val
      35                                40                                45

Asn Phe Val Val Gly Gln Asp Pro Gly Ser Asp Val Ala Phe His Phe
      50                                55                                60

Asn Pro Arg Phe Asp Gly Trp Asp Lys Val Val Phe Asn Thr Leu Gln
      65                                70                                75                                80

Gly Gly Lys Trp Gly Ser Glu Glu Arg Lys Arg Ser Met Pro Phe Lys
      85                                90                                95

Lys Gly Ala Ala Phe Glu Leu Val Phe Ile Val Leu Ala Glu His Tyr
      100                                105                                110

Lys Val Val Val Asn Gly Asn Pro Phe Tyr Glu Tyr Gly His Arg Leu
      115                                120                                125

Pro Leu Gln Met Val Thr His Leu Gln Val Asp Gly Asp Leu Gln Leu
      130                                135                                140

Gln Ser Ile Asn Phe Ile Gly Gly Gln Pro Leu Arg Pro Gln Gly Pro
      145                                150                                155                                160

Pro Met Met Pro Pro Tyr Pro Gly Pro Gly His Cys His Gln Gln Leu
      165                                170                                175

Asn Ser Leu Pro Thr Met Glu Gly Pro Pro Thr Phe Asn Pro Pro Val
      180                                185                                190

Pro Tyr Phe Gly Arg Leu Gln Gly Gly Leu Thr Ala Arg Arg Thr Ile
      195                                200                                205

Ile Ile Lys Gly Tyr Val Pro Pro Thr Gly Lys Ser Phe Ala Ile Asn
      210                                215                                220

Phe Lys Val Gly Ser Ser Gly Asp Ile Ala Leu His Ile Asn Pro Arg
      225                                230                                235                                240

Met Gly Asn Gly Thr Val Val Arg Asn Ser Leu Leu Asn Gly Ser Trp
      245                                250                                255

Gly Ser Glu Glu Lys Lys Ile Thr His Asn Pro Phe Gly Pro Gly Gln
      260                                265                                270

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Phe Phe Asp Leu Ser Ile Arg Cys Gly Leu Asp Arg Phe Lys Val Tyr
275 280 285

Ala Asn Gly Gln His Leu Phe Asp Phe Ala His Arg Leu Ser Ala Phe
290 295 300

Gln Arg Val Asp Thr Leu Glu Ile Gln Gly Asp Val Thr Leu Ser Tyr
305 310 315 320

Val Gln Ile

<210> 1065

<211> 957

<212> PRT

<213> Homo sapiens

<400> 1065

Arg Asn Arg Pro His Thr Thr Ala Phe Pro Gly Ser Thr Thr Met Pro
5 10 15

Gly Val Ser Gln Glu Ser Thr Ala Ser His Ser Ser Pro Gly Ser Thr
20 25 30

Asp Thr Thr Leu Ser Pro Gly Ser Thr Thr Ala Ser Ser Leu Gly Pro
35 40 45

Glu Ser Thr Thr Phe His Ser Gly Pro Gly Ser Thr Glu Thr Thr Leu
50 55 60

Leu Pro Asp Asn Thr Thr Ala Ser Gly Leu Leu Glu Ala Ser Thr Pro
65 70 75 80

Val His Ser Ser Thr Gly Ser Pro His Thr Thr Leu Ser Pro Ala Gly
85 90 95

Ser Thr Thr Arg Gln Gly Glu Ser Thr Thr Phe Gln Ser Trp Pro Asn
100 105 110

Ser Lys Asp Thr Thr Pro Ala Pro Pro Thr Thr Thr Ser Ala Phe Val
115 120 125

Glu Leu Ser Thr Thr Ser His Gly Ser Pro Ser Ser Thr Pro Thr Thr
130 135 140

His Phe Ser Ala Ser Ser Thr Thr Leu Gly Arg Ser Glu Glu Ser Thr
145 150 155 160

Thr Val His Ser Ser Pro Val Ala Thr Ala Thr Thr Pro Ser Pro Ala
165 170 175

Arg Ser Thr Thr Ser Gly Leu Val Glu Glu Ser Thr Thr Tyr His Ser
180 185 190

Ser	Pro	Gly	Ser	Thr	Gln	Thr	Met	His	Phe	Pro	Glu	Ser	Asp	Thr	Thr
		195					200					205			
Ser	Gly	Arg	Gly	Glu	Glu	Ser	Thr	Thr	Ser	His	Ser	Ser	Thr	Thr	His
	210					215					220				
Thr	Ile	Ser	Ser	Ala	Pro	Ser	Thr	Thr	Ser	Ala	Leu	Val	Glu	Glu	Pro
225					230					235					240
Thr	Ser	Tyr	His	Ser	Ser	Pro	Gly	Ser	Thr	Ala	Thr	Thr	His	Phe	Pro
				245					250					255	
Asp	Ser	Ser	Thr	Thr	Ser	Gly	Arg	Ser	Glu	Glu	Ser	Thr	Ala	Ser	His
			260					265					270		
Ser	Asn	Gln	Asp	Ala	Thr	Gly	Thr	Ile	Val	Leu	Pro	Ala	Arg	Ser	Thr
	275						280					285			
Thr	Ser	Val	Leu	Leu	Gly	Glu	Ser	Thr	Thr	Ser	Pro	Ile	Ser	Ser	Gly
	290					295					300				
Ser	Met	Glu	Thr	Thr	Ala	Leu	Pro	Gly	Ser	Thr	Thr	Thr	Pro	Gly	Leu
305					310					315					320
Ser	Glu	Lys	Ser	Thr	Thr	Phe	His	Ser	Ser	Pro	Arg	Ser	Pro	Ala	Thr
				325					330					335	
Thr	Leu	Ser	Pro	Ala	Ser	Thr	Thr	Ser	Ser	Gly	Val	Ser	Glu	Glu	Ser
			340					345					350		
Thr	Thr	Ser	His	Ser	Arg	Pro	Gly	Ser	Thr	His	Thr	Thr	Ala	Phe	Pro
		355					360					365			
Asp	Ser	Thr	Thr	Thr	Pro	Gly	Leu	Ser	Arg	His	Ser	Thr	Thr	Ser	His
	370					375					380				
Ser	Ser	Pro	Gly	Ser	Thr	Asp	Thr	Thr	Leu	Leu	Pro	Ala	Ser	Thr	Thr
385					390					395					400
Thr	Ser	Gly	Pro	Ser	Gln	Glu	Ser	Thr	Thr	Ser	His	Ser	Ser	Pro	Gly
				405					410					415	
Ser	Thr	Asp	Thr	Ala	Leu	Ser	Pro	Gly	Ser	Thr	Thr	Ala	Leu	Ser	Phe
			420					425					430		
Gly	Gln	Glu	Ser	Thr	Thr	Phe	His	Ser	Ser	Pro	Gly	Ser	Thr	His	Thr
		435					440					445			
Thr	Leu	Phe	Pro	Asp	Ser	Thr	Thr	Ser	Ser	Gly	Ile	Val	Glu	Ala	Ser
	450					455					460				
Thr	Arg	Val	His	Ser	Ser	Thr	Gly	Ser	Pro	Arg	Thr	Thr	Leu	Ser	Pro
465					470					475					480

Glu Ser Thr Pro Ser Arg Leu Ser Pro Ser Ser Thr Glu Thr Thr Thr
 770 775 780
 Leu Pro Gly Ser Pro Thr Thr Pro Ser Leu Ser Glu Lys Ser Thr Thr
 785 790 795 800
 Phe Tyr Thr Ser Pro Arg Ser Pro Asp Ala Thr Leu Ser Pro Ala Thr
 805 810 815
 Thr Thr Ser Ser Gly Val Ser Glu Glu Ser Ser Thr Ser His Ser Gln
 820 825 830
 Pro Gly Ser Thr His Thr Thr Ala Phe Pro Asp Ser Thr Thr Thr Ser
 835 840 845
 Gly Leu Ser Gln Glu Pro Lys Thr Ser His Ser Ser Gln Gly Ser Thr
 850 855 860
 Glu Ala Thr Leu Ser Pro Gly Ser Thr Thr Ala Ser Ser Leu Gly Gln
 865 870 875 880
 Gln Ser Thr Thr Phe His Ser Ser Pro Gly Asp Thr Glu Thr Thr Leu
 885 890 895
 Leu Pro Asp Asp Thr Ile Thr Ser Gly Leu Val Glu Ala Ser Thr Pro
 900 905 910
 Thr His Ser Ser Thr Gly Ser Leu His Thr Thr Leu Thr Pro Ala Ser
 915 920 925
 Ser Thr Ser Ala Gly Leu Gln Glu Glu Ser Thr Thr Phe Gln Ser Trp
 930 935 940
 Pro Ser Ser Ser Asp Thr Thr Pro Ser Pro Pro Gly Pro
 945 950 955

<210> 1066

<211> 914

<212> PRT

<213> Homo sapiens

<400> 1066

Met Gly Pro Phe Lys Ser Ser Val Phe Ile Leu Ile Leu His Leu Leu
 5 10 15

Glu Gly Ala Leu Ser Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr
 20 25 30

Glu Gly Ile Val Val Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr
 35 40 45

Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu

50		55		60
Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val Ala Ile Leu				
65		70		75
Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg Pro Lys Leu				
	85		90	95
Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser Thr Pro Pro				
	100		105	110
Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys Gly Glu Lys				
	115		120	125
Gly Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly Lys Lys Leu				
	130		135	140
Ala Glu Tyr Gly Pro Gln Gly Lys Ala Phe Val His Glu Trp Ala His				
	145		150	155
Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr				
	165		170	175
Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr				
	180		185	190
Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys				
	195		200	205
Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu				
	210		215	220
Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala				
	225		230	235
Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn				
	245		250	255
Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr				
	260		265	270
Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met				
	275		280	285
Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln				
	290		295	300
Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met Ala Thr Gly				
	305		310	315
Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly Gln Leu Phe Leu Leu Gln				
	325		330	335
Thr Val Glu Leu Gly Ser Trp Val Gly Met Val Thr Phe Asp Ser Ala				

340	345	350
Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly Ser Asp Arg		
355	360	365
Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly Gly Thr Ser		
370	375	380
Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr		
385	390	395 400
Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn		
405	410	415
Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile		
420	425	430
His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu		
435	440	445
Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln		
450	455	460
Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly		
465	470	475 480
Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr Leu		
485	490	495
Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp Ser Thr Val		
500	505	510
Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln Pro Pro Gln		
515	520	525
Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly Gly Phe Val Val		
530	535	540
Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile Pro Gly Ile Ala Lys		
545	550	555 560
Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala Ser Ser Gln Thr Leu Thr		
565	570	575
Leu Thr Val Thr Ser Arg Ala Ser Asn Ala Thr Leu Pro Pro Ile Thr		
580	585	590
Val Thr Ser Lys Thr Asn Lys Asp Thr Ser Lys Phe Pro Ser Pro Leu		
595	600	605
Val Val Tyr Ala Asn Ile Arg Gln Gly Ala Ser Pro Ile Leu Arg Ala		
610	615	620
Ser Val Thr Ala Leu Ile Glu Ser Val Asn Gly Lys Thr Val Thr Leu		

<210> 1067
 <211> 585
 <212> PRT
 <213> Homo sapiens

<400> 1067
 Thr Leu Ser Pro Ala Ser Met Arg Ser Ser Ser Ile Ser Gly Glu Pro
 5 10 15
 Thr Ser Leu Tyr Ser Gln Ala Glu Ser Thr His Thr Thr Ala Phe Pro
 20 25 30
 Ala Ser Thr Thr Thr Ser Gly Leu Ser Gln Glu Ser Thr Thr Phe His
 35 40 45
 Ser Lys Pro Gly Ser Thr Glu Thr Thr Leu Ser Pro Gly Ser Ile Thr
 50 55 60
 Thr Ser Ser Phe Ala Gln Glu Phe Thr Thr Pro His Ser Gln Pro Gly
 65 70 75 80
 Ser Ala Leu Ser Thr Val Ser Pro Ala Ser Thr Thr Val Pro Gly Leu
 85 90 95
 Ser Glu Glu Ser Thr Thr Phe Tyr Ser Ser Pro Gly Ser Thr Glu Thr
 100 105 110
 Thr Ala Phe Ser His Ser Asn Thr Met Ser Ile His Ser Gln Gln Ser
 115 120 125
 Thr Pro Phe Pro Asp Ser Pro Gly Phe Thr His Thr Val Leu Pro Ala
 130 135 140
 Thr Leu Thr Thr Thr Asp Ile Gly Gln Glu Ser Thr Ala Phe His Ser
 145 150 155 160
 Ser Ser Asp Ala Thr Gly Thr Thr Pro Leu Pro Ala Arg Ser Thr Ala
 165 170 175
 Ser Asp Leu Val Gly Glu Pro Thr Thr Phe Tyr Ile Ser Pro Ser Pro
 180 185 190
 Thr Tyr Thr Thr Leu Phe Pro Ala Ser Ser Ser Thr Ser Gly Leu Thr
 195 200 205
 Glu Glu Ser Thr Thr Phe His Thr Ser Pro Ser Phe Thr Ser Thr Ile
 210 215 220
 Val Ser Thr Glu Ser Leu Glu Thr Leu Ala Pro Gly Leu Cys Gln Glu
 225 230 235 240

Glu Gly Thr Pro Gly Ile Phe Gln Lys Thr Ala Ile Trp Glu Asp Gln
530 535 540

Asn Leu Arg Glu Ser Arg Phe Gly Leu Glu Asn Ala Tyr Asn Asn Phe
545 550 555 560

Arg Pro Thr Leu Glu Thr Val Asp Ser Gly Thr Glu Leu His Ile Gln
565 570 575

Arg Pro Glu Met Val Ala Ser Thr Val
580 585

<210> 1068

<211> 5179

<212> PRT

<213> Homo sapiens

<400> 1068

Met Gly Leu Pro Leu Ala Arg Leu Ala Ala Val Cys Leu Ala Leu Ser
5 10 15

Leu Ala Gly Gly Ser Glu Leu Gln Thr Glu Gly Arg Thr Arg Tyr His
20 25 30

Gly Arg Asn Val Cys Ser Thr Trp Gly Asn Phe His Tyr Lys Thr Phe
35 40 45

Asp Gly Asp Val Phe Arg Phe Pro Gly Leu Cys Asp Tyr Asn Phe Ala
50 55 60

Ser Asp Cys Arg Gly Ser Tyr Lys Glu Phe Ala Val His Leu Lys Arg
65 70 75 80

Gly Pro Gly Gln Ala Glu Ala Pro Ala Gly Val Glu Ser Ile Leu Leu
85 90 95

Thr Ile Lys Asp Asp Thr Ile Tyr Leu Thr Arg His Leu Ala Val Leu
100 105 110

Asn Gly Ala Val Val Ser Thr Pro His Tyr Ser Pro Gly Leu Leu Ile
115 120 125

Glu Lys Ser Asp Ala Tyr Thr Lys Val Tyr Ser Arg Ala Gly Leu Thr
130 135 140

Leu Met Trp Asn Arg Glu Asp Ala Leu Met Leu Glu Leu Asp Thr Lys
145 150 155 160

Phe Arg Asn His Thr Cys Gly Leu Cys Gly Asp Tyr Asn Gly Leu Gln
165 170 175

Ser Tyr Ser Glu Phe Leu Ser Asp Gly Val Leu Phe Ser Pro Leu Glu
180 185 190

Phe Gly Asn Met Gln Lys Ile Asn Gln Pro Asp Val Val Cys Glu Asp
 195 200 205
 Pro Glu Glu Glu Val Ala Pro Ala Ser Cys Ser Glu His Arg Ala Glu
 210 215 220
 Cys Glu Arg Leu Leu Thr Ala Glu Ala Phe Ala Asp Cys Gln Asp Leu
 225 230 235 240
 Val Pro Leu Glu Pro Tyr Leu Arg Ala Cys Gln Gln Asp Arg Cys Arg
 245 250 255
 Cys Pro Gly Gly Asp Thr Cys Val Cys Ser Thr Val Ala Glu Phe Ser
 260 265 270
 Arg Gln Cys Ser His Ala Gly Gly Arg Pro Gly Asn Trp Arg Thr Ala
 275 280 285
 Thr Leu Cys Pro Lys Thr Cys Pro Gly Asn Leu Val Tyr Leu Glu Ser
 290 295 300
 Gly Ser Pro Cys Met Asp Thr Cys Ser His Leu Glu Val Ser Ser Leu
 305 310 315 320
 Cys Glu Glu His Arg Met Asp Gly Cys Phe Cys Pro Glu Gly Thr Val
 325 330 335
 Tyr Asp Asp Ile Gly Asp Ser Gly Cys Val Pro Val Ser Gln Cys His
 340 345 350
 Cys Arg Leu His Gly His Leu Tyr Thr Pro Gly Gln Glu Ile Thr Asn
 355 360 365
 Asp Cys Glu Gln Cys Val Cys Asn Ala Gly Arg Trp Val Cys Lys Asp
 370 375 380
 Leu Pro Cys Pro Gly Thr Cys Ala Leu Glu Gly Gly Ser His Ile Thr
 385 390 395 400
 Thr Phe Asp Gly Lys Thr Tyr Thr Phe His Gly Asp Cys Tyr Tyr Val
 405 410 415
 Leu Ala Lys Gly Asp His Asn Asp Ser Tyr Ala Leu Leu Gly Glu Leu
 420 425 430
 Ala Pro Cys Gly Ser Thr Asp Lys Gln Thr Cys Leu Lys Thr Val Val
 435 440 445
 Leu Leu Ala Asp Lys Lys Lys Asn Ala Val Val Phe Lys Ser Asp Gly
 450 455 460
 Ser Val Leu Leu Asn Gln Leu Gln Val Asn Leu Pro His Val Thr Ala
 465 470 475 480

Ser Phe Ser Val Phe Arg Pro Ser Ser Tyr His Ile Met Val Ser Met
 485 490 495
 Ala Ile Gly Val Arg Leu Gln Val Gln Leu Ala Pro Val Met Gln Leu
 500 505 510
 Phe Val Thr Leu Asp Gln Ala Ser Gln Gly Gln Val Gln Gly Leu Cys
 515 520 525
 Gly Asn Phe Asn Gly Leu Glu Gly Asp Asp Phe Lys Thr Ala Ser Gly
 530 535 540
 Leu Val Glu Ala Thr Gly Ala Gly Phe Ala Asn Thr Trp Lys Ala Gln
 545 550 555 560
 Ser Thr Cys His Asp Lys Leu Asp Trp Leu Asp Asp Pro Cys Ser Leu
 565 570 575
 Asn Ile Glu Ser Ala Asn Tyr Ala Glu His Trp Cys Ser Leu Leu Lys
 580 585 590
 Lys Thr Glu Thr Pro Phe Gly Arg Cys His Ser Ala Val Asp Pro Ala
 595 600 605
 Glu Tyr Tyr Lys Arg Cys Lys Tyr Asp Thr Cys Asn Cys Gln Asn Asn
 610 615 620
 Glu Asp Cys Leu Cys Ala Ala Leu Ser Ser Tyr Ala Arg Ala Cys Thr
 625 630 635 640
 Ala Lys Gly Val Met Leu Trp Gly Trp Arg Glu His Val Cys Asn Lys
 645 650 655
 Asp Val Gly Ser Cys Pro Asn Ser Gln Val Phe Leu Tyr Asn Leu Thr
 660 665 670
 Thr Cys Gln Gln Thr Cys Arg Ser Leu Ser Glu Ala Asp Ser His Cys
 675 680 685
 Leu Glu Gly Phe Ala Pro Val Asp Gly Cys Gly Cys Pro Asp His Thr
 690 695 700
 Phe Leu Asp Glu Lys Gly Arg Cys Val Pro Leu Ala Lys Cys Ser Cys
 705 710 715 720
 Tyr His Arg Gly Leu Tyr Leu Glu Ala Gly Asp Val Val Val Arg Gln
 725 730 735
 Glu Glu Arg Cys Val Cys Arg Asp Gly Arg Leu His Cys Arg Gln Ile
 740 745 750
 Arg Leu Ile Gly Gln Ser Cys Thr Ala Pro Lys Ile His Met Asp Cys
 755 760 765

Ser Asn Leu Thr Ala Leu Ala Thr Ser Lys Pro Arg Ala Leu Ser Cys
 770 775 780
 Gln Thr Leu Ala Ala Gly Tyr Tyr His Thr Glu Cys Val Ser Gly Cys
 785 790 795 800
 Val Cys Pro Asp Gly Leu Met Asp Asp Gly Arg Gly Gly Cys Val Val
 805 810 815
 Glu Lys Glu Cys Pro Cys Val His Asn Asn Asp Leu Tyr Ser Ser Gly
 820 825 830
 Ala Lys Ile Lys Val Asp Cys Asn Thr Cys Thr Cys Lys Arg Gly Arg
 835 840 845
 Trp Val Cys Thr Gln Ala Val Cys His Gly Thr Cys Ser Ile Tyr Gly
 850 855 860
 Ser Gly His Tyr Ile Thr Phe Asp Gly Lys Tyr Tyr Asp Phe Asp Gly
 865 870 875 880
 His Cys Ser Tyr Val Ala Val Gln Asp Tyr Cys Gly Gln Asn Ser Ser
 885 890 895
 Leu Gly Ser Phe Ser Ile Ile Thr Glu Asn Val Pro Cys Gly Thr Thr
 900 905 910
 Gly Val Thr Cys Ser Lys Ala Ile Lys Ile Phe Met Gly Arg Thr Glu
 915 920 925
 Leu Lys Leu Glu Asp Lys His Arg Val Val Ile Gln Arg Asp Glu Gly
 930 935 940
 His His Val Ala Tyr Thr Thr Arg Glu Val Gly Gln Tyr Leu Val Val
 945 950 955 960
 Glu Ser Ser Thr Gly Ile Ile Val Ile Trp Asp Lys Arg Thr Thr Val
 965 970 975
 Phe Ile Lys Leu Ala Pro Ser Tyr Lys Gly Thr Val Cys Gly Leu Cys
 980 985 990
 Gly Asn Phe Asp His Arg Ser Asn Asn Asp Phe Thr Thr Arg Asp His
 995 1000 1005
 Met Val Val Ser Ser Glu Leu Asp Phe Gly Asn Ser Trp Lys Glu Ala
 1010 1015 1020
 Pro Thr Cys Pro Asp Val Ser Thr Asn Pro Glu Pro Cys Ser Leu Asn
 1025 1030 1035 1040
 Pro His Arg Arg Ser Trp Ala Glu Lys Gln Cys Ser Ile Leu Lys Ser
 1045 1050 1055

His Leu Ser Leu Glu Gln His Gly Gln Lys Val Gln Cys Asp Val Ser
1345 1350 1355 1360

Val Gly Phe Ile Cys Lys Asn Glu Asp Gln Phe Gly Asn Gly Pro Phe
1365 1370 1375

Gly Leu Cys Tyr Asp Tyr Lys Ile Arg Val Asn Cys Cys Trp Pro Met
1380 1385 1390

Asp Lys Cys Ile Thr Thr Pro Ser Pro Pro Thr Thr Thr Pro Ser Pro
1395 1400 1405

Pro Pro Thr Thr Thr Thr Thr Leu Pro Pro Thr Thr Thr Pro Ser Pro
1410 1415 1420

Pro Thr Thr Thr Thr Thr Thr Pro Pro Pro Thr Thr Thr Pro Ser Pro
1425 1430 1435 1440

Pro Ile Thr Thr Thr Thr Thr Pro Leu Pro Thr Thr Thr Pro Ser Pro
1445 1450 1455

Pro Ile Ser Thr Thr Thr Thr Pro Pro Pro Thr Thr Thr Pro Ser Pro
1460 1465 1470

Pro Thr Thr Thr Pro Ser Pro Pro Thr Thr Thr Pro Ser Pro Pro Thr
1475 1480 1485

Thr Thr Thr Thr Thr Pro Pro Pro Thr Thr Thr Pro Ser Pro Pro Met
1490 1495 1500

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Thr Thr Pro Ser Pro Pro Thr Thr Thr Thr Thr Thr Pro Pro Pro Thr
1525 1530 1535

Thr Thr Pro Ser Pro Pro Thr Thr Thr Pro Ile Thr Pro Pro Thr Ser
1540 1545 1550

Thr Thr Thr Leu Pro Pro Thr Thr Thr Pro Ser Pro Pro Pro Thr Thr
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Thr Thr Thr Pro Pro Pro Thr Thr Thr Pro Ser Pro Pro Thr Thr Thr
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Thr Pro Ser Pro Pro Thr Ile Thr Thr Thr Thr Pro Pro Pro Thr Thr
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Thr Pro Ser Pro Pro Thr Thr Thr Thr Thr Thr Pro Pro Pro Thr Thr
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 Pro Ser Ser Pro Ile Thr Thr Thr Pro Ser Pro Pro Thr Thr Thr Met
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 Leu Pro Pro Ser Ile Thr Pro Pro Thr Phe Ser Pro Phe Ser Thr Thr
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 Asp Ser Gly Lys Pro Asn Phe His Lys Pro Gly Gly Asp Thr Glu Leu
 1795 1800 1805
 Ile Gly Asp Val Cys Gly Pro Gly Trp Ala Ala Asn Ile Ser Cys Arg
 1810 1815 1820
 Ala Thr Met Tyr Pro Asp Val Pro Ile Gly Gln Leu Gly Gln Thr Val
 1825 1830 1835 1840
 Val Cys Asp Val Ser Val Gly Leu Ile Cys Lys Asn Glu Asp Gln Lys
 1845 1850 1855
 Pro Gly Gly Val Ile Pro Met Ala Phe Cys Leu Asn Tyr Glu Ile Asn
 1860 1865 1870
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 1890 1895 1900
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 1905 1910 1915 1920

Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro
 1925 1930 1935

Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr
 1940 1945 1950

Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr
 1955 1960 1965

Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly
 1970 1975 1980

Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr
 1985 1990 1995 2000

Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile
 2005 2010 2015

Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln
 2020 2025 2030

Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr
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Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr
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Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr
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 Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr
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 Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr
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Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr Val
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Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr
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Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr
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Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr
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Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr
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Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr
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Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr Val
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Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro
3635 3640 3645

Arg Ser Thr Ser Ser Pro Leu Thr Glu Ser Thr Thr Leu Leu Ser Thr
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Leu Pro Pro Ala Ile Glu Met Thr Ser Thr Ala Pro Pro Ser Thr Pro
4245 4250 4255

Thr Ala Pro Thr Thr Thr Ser Gly Gly His Thr Leu Ser Pro Pro Pro
4260 4265 4270

Ser Thr Thr Thr Ser Pro Pro Gly Thr Pro Thr Arg Gly Thr Thr Thr
4275 4280 4285

Gly Ser Ser Ser Ala Pro Thr Pro Ser Thr Val Gln Thr Thr Thr Thr
4290 4295 4300

Ser Ala Trp Thr Pro Thr Pro Thr Pro Leu Ser Thr Pro Ser Ile Ile
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Arg Thr Thr Gly Leu Arg Pro Tyr Pro Ser Ser Val Leu Ile Cys Cys
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Val Leu Asn Asp Thr Tyr Tyr Ala Pro Gly Glu Glu Val Tyr Asn Gly
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Thr Tyr Gly Asp Thr Cys Tyr Phe Val Asn Cys Ser Leu Ser Cys Thr
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Leu Glu Phe Tyr Asn Trp Ser Cys Pro Ser Thr Pro Ser Pro Thr Pro
4370 4375 4380

Thr Pro Ser Lys Ser Thr Pro Thr Pro Ser Lys Pro Ser Ser Thr Pro
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Ser Lys Pro Thr Pro Gly Thr Lys Pro Pro Glu Cys Pro Asp Phe Asp
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Pro Pro Arg Gln Glu Asn Glu Thr Trp Trp Leu Cys Asp Cys Phe Met
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Ala Thr Cys Lys Tyr Asn Asn Thr Val Glu Ile Val Lys Val Glu Cys
4435 4440 4445

Glu Pro Pro Pro Met Pro Thr Cys Ser Asn Gly Leu Gln Pro Val Arg
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Val Glu Asp Pro Asp Gly Cys Cys Trp His Trp Glu Cys Asp Cys Tyr
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Cys Thr Gly Trp Gly Asp Pro His Tyr Val Thr Phe Asp Gly Leu Tyr
4485 4490 4495

Tyr Ser Tyr Gln Gly Asn Cys Thr Tyr Val Leu Val Glu Glu Ile Ser
4500 4505 4510

10052001

Pro Ser Val Asp Asn Phe Gly Val Tyr Ile Asp Asn Tyr His Cys Asp
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 Thr Gln Glu Val Leu Ile Lys Thr Val His Met Met Pro Met Gln Val
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 Gln Val Gln Val Asn Arg Gln Ala Val Ala Leu Pro Tyr Lys Lys Tyr
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 Glu Leu Gly Val Leu Val Ser Tyr Asn Gly Leu Ser Phe Ser Val Arg
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 Leu Pro Tyr His Arg Phe Gly Asn Asn Thr Lys Gly Gln Cys Gly Thr
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 Tyr Ala Ala Leu Cys Ala Gln Gln Asn Ile Cys Leu Asp Trp Arg Asn
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 His Thr His Gly Ala Cys Leu Val Glu Cys Pro Ser His Arg Glu Tyr
 4755 4760 4765
 Gln Ala Cys Gly Pro Ala Glu Glu Pro Thr Cys Lys Ser Ser Ser Ser
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 Gln Gln Asn Asn Thr Val Leu Val Glu Gly Cys Phe Cys Pro Glu Gly
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Thr Met Asn Tyr Ala Pro Gly Phe Asp Val Cys Val Lys Thr Cys Gly
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 Cys Val Gly Pro Asp Asn Val Pro Arg Glu Phe Gly Glu His Phe Glu
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 Phe Asp Cys Lys Asn Cys Val Cys Leu Glu Gly Gly Ser Gly Ile Ile
 4835 4840 4845
 Cys Gln Pro Lys Arg Cys Ser Gln Lys Pro Val Thr His Cys Val Glu
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 Asp Gly Thr Tyr Leu Ala Thr Glu Val Asn Pro Ala Asp Thr Cys Cys
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 Asn Ile Thr Val Cys Lys Cys Asn Thr Ser Leu Cys Lys Glu Lys Pro
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 Ser Val Cys Pro Leu Gly Phe Glu Val Lys Ser Lys Met Val Pro Gly
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 Arg Cys Cys Pro Phe Tyr Trp Cys Glu Ser Lys Gly Val Cys Val His
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 Gly Asn Ala Glu Tyr Gln Pro Gly Ser Pro Val Tyr Ser Ser Lys Cys
 4930 4935 4940
 Gln Asp Cys Val Cys Thr Asp Lys Val Asp Asn Asn Thr Leu Leu Asn
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 Val Ile Ala Cys Thr His Val Pro Cys Asn Thr Ser Cys Ser Pro Gly
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 Phe Glu Leu Met Glu Ala Pro Gly Glu Cys Cys Lys Lys Cys Glu Gln
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 Thr His Cys Ile Ile Lys Arg Pro Asp Asn Gln His Val Ile Leu Lys
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 Pro Gly Asp Phe Lys Ser Asp Pro Lys Asn Asn Cys Thr Phe Phe Ser
 5010 5015 5020
 Cys Val Lys Ile His Asn Gln Leu Ile Ser Ser Val Ser Asn Ile Thr
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 Cys Pro Asn Phe Asp Ala Ser Ile Cys Ile Pro Gly Ser Ile Thr Phe
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 Met Pro Asn Gly Cys Cys Lys Thr Cys Thr Pro Arg Asn Glu Thr Arg
 5060 5065 5070
 Val Pro Cys Ser Thr Val Pro Val Thr Thr Glu Val Ser Tyr Ala Gly
 5075 5080 5085

Cys Thr Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys Gly Thr
 5090 5095 5100
 Phe Val Met Tyr Ser Ala Lys Ala Gln Ala Leu Asp His Ser Cys Ser
 5105 5110 5115 5120
 Cys Cys Lys Glu Glu Lys Thr Ser Gln Arg Glu Val Val Leu Ser Cys
 5125 5130 5135
 Pro Asn Gly Gly Ser Leu Thr His Thr Tyr Thr His Ile Glu Ser Cys
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 Gln Cys Gln Asp Thr Val Cys Gly Leu Pro Thr Gly Thr Ser Arg Arg
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 Ala Arg Arg Ser Pro Arg His Leu Gly Ser Gly
 5170 5175

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 <211> 1173
 <212> DNA
 <213> Homo sapiens

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 gagtcttggt tgccaaacag atttgcagat caaggagaac ccaggagtgt caaagaagcg 180
 ctagtaagggt ctctgagatc cttgcactag ctacatcctc agggtaggag gaagatggct 240
 tccagaagca tgcggctgct cctattgctg agctgcctgg ccaaaacagg agtcctgggt 300
 gatatcatca tgagaccag ctgtgctcct ggatggtttt accacaagtc caattgctat 360
 gggttacttca ggaagctgag gaactgggtct gatgccgagc tgcagtgtca gtcttacgga 420
 aacggagccc acctggcatc tatcctgagt ttaaaggaag ccagcaccat agcagagtac 480
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 atgggtggga acaagcactg tgctgagatg agctccaata acaacttttt aacttggagc 660
 agcaacgaat gcaacaagcg ccaacacttc ctgtgcaagt accgaccata gagcaagaat 720
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 cataagaagt aaagatttga agacagaagg aagaaactca ggagtaagct tctagccccc 1080
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 ctctgcttg tttttccttt ggccatggga aag 1173

<210> 1070
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 1070
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<212> DNA
<213> Homo sapiens
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gaagcatgcg	gctgctccta	ttgctgagct	gcctggccaa	aacaggagtc	ctgggtgata	180
tcatcatgag	accagctgt	gctcctggat	ggttttacca	caagtccaat	tgctatgggt	240
acttcaggaa	gctgaggaac	tggtctgatg	ccgagctcga	gtgtcagttc	tacggaaacg	300
gagcccacct	ggcatctatc	ctgagtttaa	aggaagccag	caccatagca	gagtacataa	360
gtggctatca	gagaagccag	ccgatatgga	ttggcctgca	cgaccacag	aagaggcagc	420
agtggcagtg	gattgatggg	gccatgtatc	tgtacagatc	ctgggtctggc	aagtccatgg	480
gtgggaacaa	gcactgtgct	gagatgagct	ccaataacaa	ctttttaact	tggagcagca	540
acgaatgcaa	caagcgccaa	cacttccctgt	gcaagtaccg	accatagagc	aagaatcaag	600
attctgctaa	ctcctgcaca	gccccgtcct	cttcctttct	gctagcctgg	ctaaatctgc	660
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tctcgagcag	tctagaagag	tgcattctcca	gcctatgaaa	cagctgggtc	tttggccata	900
agaagttaaag	atttgaagac	agaaggaaga	aactcaggag	taagctttcta	gacccttcca	960

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gctttctacac cctttctgccc tctctccatt gcctgcaccc caccccagcc actcaactcc 1020
tgcttggtttt tccttttgccc ataggaaggt ttaccagtag aatccttgct aggttgatgt 1080
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<210> 1072
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<212> DNA
<213> Homo sapiens

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agctacatcc tcagggtagg aggaagatgg cttccagaag catgcggctg ctctatttc 180
tgagctgcct ggccaaaaca ggagtcctgg gtgatatcat catgagaccc agctgtgctc 240
ctggatggtt ttaccacaag tccaattgct atggttactt caggaagctg aggaactgg 300
ctgatgccga gctcgagtgt cagtcttacg gaaacggagc ccacctggca tctatcctga 360
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tatggattgg cctgcacgac ccacagaaga ggcagcagtg gcagtggatt gatggggcca 480
tgtatctgta cagatcctgg tctggcaagt ccatgggtgg gaacaagcac tgtgtctgaga 540
tgagctccaa taacaacttt ttaacttgga gcagcaacga atgcaacaag cgccaacact 600
tcctgtgcaa gtaccgacca tagagcaaga atcaagattc tgctaactcc tgcacagccc 660
cgctctcttc ctttctgcta gcctggctaa atctgctcat tatttcagag gggaaacct 720
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cagtatcctt ctccctctct cccctgtctc tggctgtctc gagcagtcta gaagagtgc 900
tctccagcct atgaaacagc tgggtctttg gccataagaa gtaaagattt gaagacagaa 960
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tccattgcct gcaccccacc ccagccactc aactcctgct tgtttttcct ttggccatgg 1080
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cattgtgtac at 1152

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<210> 1073
<211> 474
<212> DNA
<213> Homo sapiens

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tgctatggtt acttcaggaa gctgaggaac tggctctgat ccgagctcga gtgtcagct 180
tacggaaacg gagccacct ggcatctatc ctgagtttaa aggaagccag caccatagca 240
gagtacataa gtggctatca gagaagccag ccgatatgga ttggcctgca cgacccacag 300
aagaggcagc agtggcagtg gattgatggg gccatgtatc tgtacagatc ctggtctggc 360
aagtccatgg gtgggaacaa gcactgtgct gagatgagct ccaataacaa ctttttaact 420
tggagcagca acgaatgcaa caagcgccaa cacttcctgt gcaagtaccg acca 474

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<210> 1074
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<212> DNA
<213> Homo sapiens

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acttcaggaa gctgaggaac tggctctgat ccgagctcga gtgtcagtc taccgaaacg 300
gagcccacct ggcattctatc ctgagtttaa aggaagccag caccatagca gactacataa 360
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agtggcagtg gattgatggg gccatgtatc tgtacagatc ctggctctggc aagtccatgg 480
gtgggaacaa gcactgtgct gagatgagct ccaataacaa ctttttaact tggagcagca 540
acgaatgcaa caagcgccaa cacttcctgt gcaagtaccg accatagagc aagaatcaag 600
attctgctaa ctctgcaca gccccgtcct cttcctttct gctagcctgg ctaaactctgc 660
tcattatttc agaggggaaa cctagcaaac taagagtgat aagggcccta ctacactggc 720
tttttttaggc ttagagacag aaacttttagc attggcccag tagtggttc tagctctaaa 780
tgtttgcccc gccatccctt tccacagtat ccttcttccc tctccccctg tctctggctg 840
tctcgagcag tctagaagag tgcattctca gcctatgaaa cagctgggtc tttggccata 900
agaagtaaac atttgaagac agaaggaaga aactcaggag taagcttcta gacccttca 960
gcttctacac ccttctgccc tctctccatt gcctgcaccc caccocagcc actcaactcc 1020
tgcttgcttt tctttggcc ataggaaggt ttaccagtag aatccttgct aggttgatgt 1080
gggccataca ttcctttaat aaaccattgt gtac 1114

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<210> 1075
 <211> 614
 <212> DNA
 <213> Homo sapiens

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<400> 1075
tgaagaaggc aggggcccctt agagtcttgg ttgccaaaca gatttgcaga tcaaggagaa 60
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cagggttagga ggaagatggc ttccagaagc atgcggtctgc tctatttgc gagctgcttg 180
gccaaaacag gactcctggg tgatatcatc atgagaccca gctgtgctcc tggatgggtt 240
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ctcgagtgtc agtcttacgg aaacggagcc cacctggcat ctatcctgag tttaaaggaa 360
gccagcacca tagcagagta cataagtggc tatcagagaa gccagccgat atggattggc 420
ctgcacgacc cacagaagag gcagcagtgg cagtggattg atggggccat gtatctgtac 480
agatcctggg ctggcaagtc catgggtggg aacaagcact gtgctgagat gagctccaat 540
aacaactttt taacttggag cagcaacgaa tgcaacaagc gccaacactt cctgtgcaag 600
taccgaccat agag 614

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<210> 1076
 <211> 3345
 <212> DNA
 <213> Homo sapiens

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<400> 1076
gaattccgtc tcgaccactg aatggaagaa aaggactttt aaccaccatt ttgtgactta 60
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cttcttatgc tttatttggc aactggatat ggccaagagg ggaagtttag tggacccttg 180
aaacccatga cttttctat ttatgaaggc caagaaccga gtcaaattat attccagttt 240
aaggccaatc ctctgctgtg gacttttgaa ctaactgggg agacagacaa catatttgtg 300
atagaacggg agggacttct gtattacaac agagccttgg acagggaaac aagatctact 360
cacaatctcc aggttgcagc cctggacgct aatggaatta tagtggaggg tccagtccct 420
atcaccatag aagtgaagga catcaacgac aatcgaccca cgtttctcca gtcaaagtac 480
gaaggctcag taaggcagaa ctctcgccca ggaaagccct tcttgatgt caatgccaca 540
gacctggatg atccggccac tcccaatggc cagctttatt accagattgt catccagctt 600
cccatgatca acaatgtcat gtactttcag atcaacaaca aaacgggagc catctctctt 660
acccgagagg gatctcagga attgaatcct gctaagaatc ctctctataa tctggtgatc 720

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tcagtgaagg acatgggagg ccagagtgag aattccttca gtgataccac atctgtggat 780
atcatagtga cagagaatat ttggaaagca ccaaaacctg tggagatggg ggaaaactca 840
actgatcctc accccatcaa aatcactcag gtgcggtgga atgatcccg tgcacaatat 900
tccttagttg acaaagagaa gctgccaaag tccccatttt caattgacca ggaaggagat 960
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gcaaaggatg agtacggaaa accacttttca tatccgctgg aaattcatgt aaaagttaaa 1080
gatattaatg ataatccacc tacatgtccg tcaccagtaa ccgtatttga ggtccaggag 1140
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actgcctgga ttccatttat gtttttctg attccatcct gtgtccctt catccttgac 3240
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<210> 1077

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1077

Met Ala Ser Arg Ser Met Arg Leu Leu Leu Leu Leu Ser Cys Leu Ala

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10

15

Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His
 115 120 125

Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn
 130 135 140

Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro
 145 150 155

<210> 1079

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1079

Met Ala Ser Arg Ser Met Arg Leu Leu Leu Leu Leu Ser Cys Leu Ala
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Lys Thr Gly Val Leu Gly Asp Ile Ile Met Arg Pro Ser Cys Ala Pro
 20 25 30

Gly Trp Phe Tyr His Lys Ser Asn Cys Tyr Gly Tyr Phe Arg Lys Leu
 35 40 45

Arg Asn Trp Ser Asp Ala Glu Leu Glu Cys Gln Ser Tyr Gly Asn Gly
 50 55 60

Ala His Leu Ala Ser Ile Leu Ser Leu Lys Glu Ala Ser Thr Ile Ala
 65 70 75 80

Glu Tyr Ile Ser Gly Tyr Gln Arg Ser Gln Pro Ile Trp Ile Gly Leu
 85 90 95

His Asp Pro Gln Lys Arg Gln Gln Trp Gln Trp Ile Asp Gly Ala Met
 100 105 110

Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His
 115 120 125

Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn
 130 135 140

Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro
 145 150 155

<210> 1080

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1080

Met Ala Ser Arg Ser Met Arg Leu Leu Leu Leu Leu Ser Cys Leu Ala
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Lys Thr Gly Val Leu Gly Asp Ile Ile Met Arg Pro Ser Cys Ala Pro
20 25 30

Gly Trp Phe Tyr His Lys Ser Asn Cys Tyr Gly Tyr Phe Arg Lys Leu
35 40 45

Arg Asn Trp Ser Asp Ala Glu Leu Glu Cys Gln Ser Tyr Gly Asn Gly
50 55 60

Ala His Leu Ala Ser Ile Leu Ser Leu Lys Glu Ala Ser Thr Ile Ala
65 70 75 80

Glu Tyr Ile Ser Gly Tyr Gln Arg Ser Gln Pro Ile Trp Ile Gly Leu
85 90 95

His Asp Pro Gln Lys Arg Gln Gln Trp Gln Trp Ile Asp Gly Ala Met
100 105 110

Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His
115 120 125

Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn
130 135 140

Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro
145 150 155

<210> 1081

<211> 832

<212> PRT

<213> Homo sapiens

<400> 1081

Met Ile Leu Gln Ala His Leu His Ser Leu Cys Leu Leu Met Leu Tyr
5 10 15

Leu Ala Thr Gly Tyr Gly Gln Glu Gly Lys Phe Ser Gly Pro Leu Lys
20 25 30

Pro Met Thr Phe Ser Ile Tyr Glu Gly Gln Glu Pro Ser Gln Ile Ile
35 40 45

Phe Gln Phe Lys Ala Asn Pro Pro Ala Val Thr Phe Glu Leu Thr Gly
50 55 60

Glu Thr Asp Asn Ile Phe Val Ile Glu Arg Glu Gly Leu Leu Tyr Tyr
65 70 75 80

Asn Arg Ala Leu Asp Arg Glu Thr Arg Ser Thr His Asn Leu Gln Val
85 90 95

Ala Ala Leu Asp Ala Asn Gly Ile Ile Val Glu Gly Pro Val Pro Ile
 100 105 110
 Thr Ile Glu Val Lys Asp Ile Asn Asp Asn Arg Pro Thr Phe Leu Gln
 115 120 125
 Ser Lys Tyr Glu Gly Ser Val Arg Gln Asn Ser Arg Pro Gly Lys Pro
 130 135 140
 Phe Leu Tyr Val Asn Ala Thr Asp Leu Asp Asp Pro Ala Thr Pro Asn
 145 150 155 160
 Gly Gln Leu Tyr Tyr Gln Ile Val Ile Gln Leu Pro Met Ile Asn Asn
 165 170 175
 Val Met Tyr Phe Gln Ile Asn Asn Lys Thr Gly Ala Ile Ser Leu Thr
 180 185 190
 Arg Glu Gly Ser Gln Glu Leu Asn Pro Ala Lys Asn Pro Ser Tyr Asn
 195 200 205
 Leu Val Ile Ser Val Lys Asp Met Gly Gly Gln Ser Glu Asn Ser Phe
 210 215 220
 Ser Asp Thr Thr Ser Val Asp Ile Ile Val Thr Glu Asn Ile Trp Lys
 225 230 235 240
 Ala Pro Lys Pro Val Glu Met Val Glu Asn Ser Thr Asp Pro His Pro
 245 250 255
 Ile Lys Ile Thr Gln Val Arg Trp Asn Asp Pro Gly Ala Gln Tyr Ser
 260 265 270
 Leu Val Asp Lys Glu Lys Leu Pro Arg Phe Pro Phe Ser Ile Asp Gln
 275 280 285
 Glu Gly Asp Ile Tyr Val Thr Gln Pro Leu Asp Arg Glu Glu Lys Asp
 290 295 300
 Ala Tyr Val Phe Tyr Ala Val Ala Lys Asp Glu Tyr Gly Lys Pro Leu
 305 310 315 320
 Ser Tyr Pro Leu Glu Ile His Val Lys Val Lys Asp Ile Asn Asp Asn
 325 330 335
 Pro Pro Thr Cys Pro Ser Pro Val Thr Val Phe Glu Val Gln Glu Asn
 340 345 350
 Glu Arg Leu Gly Asn Ser Ile Gly Thr Leu Thr Ala His Asp Arg Asp
 355 360 365
 Glu Glu Asn Thr Ala Asn Ser Phe Leu Asn Tyr Arg Ile Val Glu Gln
 370 375 380

Thr Pro Lys Leu Pro Met Asp Gly Leu Phe Leu Ile Gln Thr Tyr Ala
 385 390 395 400
 Gly Met Leu Gln Leu Ala Lys Gln Ser Leu Lys Lys Gln Asp Thr Pro
 405 410 415
 Gln Tyr Asn Leu Thr Ile Glu Val Ser Asp Lys Asp Phe Lys Thr Leu
 420 425 430
 Cys Phe Val Gln Ile Asn Val Ile Asp Ile Asn Asp Gln Ile Pro Ile
 435 440 445
 Phe Glu Lys Ser Asp Tyr Gly Asn Leu Thr Leu Ala Glu Asp Thr Asn
 450 455 460
 Ile Gly Ser Thr Ile Leu Thr Ile Gln Ala Thr Asp Ala Asp Glu Pro
 465 470 475 480
 Phe Thr Gly Ser Ser Lys Ile Leu Tyr His Ile Ile Lys Gly Asp Ser
 485 490 495
 Glu Gly Arg Leu Gly Val Asp Thr Asp Pro His Thr Asn Thr Gly Tyr
 500 505 510
 Val Ile Ile Lys Lys Pro Leu Asp Phe Glu Thr Ala Ala Val Ser Asn
 515 520 525
 Ile Val Phe Lys Ala Glu Asn Pro Glu Pro Leu Val Phe Gly Val Lys
 530 535 540
 Tyr Asn Ala Ser Ser Phe Ala Lys Phe Thr Leu Ile Val Thr Asp Val
 545 550 555 560
 Asn Glu Ala Pro Gln Phe Ser Gln His Val Phe Gln Ala Lys Val Ser
 565 570 575
 Glu Asp Val Ala Ile Gly Thr Lys Val Gly Asn Val Thr Ala Lys Asp
 580 585 590
 Pro Glu Gly Leu Asp Ile Ser Tyr Ser Leu Arg Gly Asp Thr Arg Gly
 595 600 605
 Trp Leu Lys Ile Asp His Val Thr Gly Glu Ile Phe Ser Val Ala Pro
 610 615 620
 Leu Asp Arg Glu Ala Gly Ser Pro Tyr Arg Val Gln Val Val Ala Thr
 625 630 635 640
 Glu Val Gly Gly Ser Ser Leu Ser Ser Val Ser Glu Phe His Leu Ile
 645 650 655
 Leu Met Asp Val Asn Asp Asn Pro Pro Arg Leu Ala Lys Asp Tyr Thr
 660 665 670

20 25 30
 Cys Leu Ile Phe Pro Ser Gln Ile Arg Phe Glu His
 35 40

<210> 1084
 <211> 1035
 <212> DNA
 <213> Homo sapiens

<400> 1084
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 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
 ggcgacagag tccaacgcgt ggtcgggagc gtcctggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcatacatc cgggtgacgtc atctcgggtga cctggcaaac caagtccggc 360
 ggcacgcgta cagggaaacgt gacattggcc gagggacccc cggccgaatt catatgggta 420
 cgagtaagca atgactctca agcaattttt ggttctgaag atgtaggctc tagctcctac 480
 gttgctgttg acatattgat tgctgtaggt gccatcatca tgattctggg ctctcctggga 540
 tgetgcggtg ctataaaaaga aagtcgctgc atgcttctgt tgtttttcat aggcttgctt 600
 ctgatcctgc tcctgcaggt ggcgacaggt atcctaggag ctgttttcaa atctaagtct 660
 gatcgcattg tgaatgaaac tctctatgaa aacacaaaagc ttttgagcgc cacaggggaa 720
 agtgaaaaaac aattccagga agccataatt gtgtttcaag aagagtttaa atgctgcggt 780
 ttgggtcaatg gagctgctga ttggggaaat aattttcaac actatcctga attatgtgcc 840
 tgtctagata agcagagacc atgccaaagc tataatggaa aacaagttta caaagagacc 900
 tgtatttctt tcataaaaaga ctctctggca aaaaatttga ttatagttat tggaatatca 960
 tttggactgg cagttattga gatactgggt ttggtgtttt ctatggctct gtattgccag 1020
 atcgggaaca aataa 1035

<210> 1085
 <211> 344
 <212> PRT
 <213> Homo sapiens

<400> 1085
 Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
 5 10 15
 Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
 20 25 30
 Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
 35 40 45
 Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
 50 55 60
 Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
 65 70 75 80
 Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
 85 90 95
 Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
 100 105 110
 Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
 115 120 125
 Leu Ala Glu Gly Pro Pro Ala Glu Phe Ile Trp Val Arg Val Ser Asn
 130 135 140

Asp Ser Gln Ala Ile Phe Gly Ser Glu Asp Val Gly Ser Ser Ser Tyr
 145 150 155 160
 Val Ala Val Asp Ile Leu Ile Ala Val Gly Ala Ile Ile Met Ile Leu
 165 170 175
 Gly Phe Leu Gly Cys Cys Gly Ala Ile Lys Glu Ser Arg Cys Met Leu
 180 185 190
 Leu Leu Phe Phe Ile Gly Leu Leu Leu Ile Leu Leu Leu Gln Val Ala
 195 200 205
 Thr Gly Ile Leu Gly Ala Val Phe Lys Ser Lys Ser Asp Arg Ile Val
 210 215 220
 Asn Glu Thr Leu Tyr Glu Asn Thr Lys Leu Leu Ser Ala Thr Gly Glu
 225 230 235 240
 Ser Glu Lys Gln Phe Gln Glu Ala Ile Ile Val Phe Gln Glu Glu Phe
 245 250 255
 Lys Cys Cys Gly Leu Val Asn Gly Ala Ala Asp Trp Gly Asn Asn Phe
 260 265 270
 Gln His Tyr Pro Glu Leu Cys Ala Cys Leu Asp Lys Gln Arg Pro Cys
 275 280 285
 Gln Ser Tyr Asn Gly Lys Gln Val Tyr Lys Glu Thr Cys Ile Ser Phe
 290 295 300
 Ile Lys Asp Phe Leu Ala Lys Asn Leu Ile Ile Val Ile Gly Ile Ser
 305 310 315 320
 Phe Gly Leu Ala Val Ile Glu Ile Leu Gly Leu Val Phe Ser Met Val
 325 330 335
 Leu Tyr Cys Gln Ile Gly Asn Lys
 340

<210> 1086
 <211> 2877
 <212> DNA
 <213> Homo sapiens

<400> 1086
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 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
 ggcgcacgag tccaacgcgt ggtcgggagc gtcctggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcattcatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360
 ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt ctccatggag 420
 ctgcctagcg gatccgcggc cgcacaagag gggaagtta gtggacccct gaaacccatg 480
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 cctcctgctg tgacttttga actaactggg gagacagaca acatatttgt gatagaacgg 600
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 gatccggcca ctcccaatgg ccagctttat taccagattg tcatccagct tcccatgatc 900
 aacaatgtya tgtactttca gatcaacaac aaaacgggag ccattctctt tacccgagag 960
 ggatctcagg aattgaatcc tgctaagaat ccttcctata atctgggtgat ctcagtgaag 1020
 gacatgggag gccagagtga gaattccttc agtgatacca catctgtgga tatcatagtg 1080
 acagagaata tttggaaagc accaaaacct gtggagatgg tggaaaactc aactgatcct 1140
 cccccatca aaatcactca ggtgcggtgg aatgatcccg gtgcacaata ttccttagtt 1200

145 150 155 160
 Thr Phe Ser Ile Tyr Glu Gly Gln Glu Pro Ser Gln Ile Ile Phe Gln
 165 170 175
 Phe Lys Ala Asn Pro Pro Ala Val Thr Phe Glu Leu Thr Gly Glu Thr
 180 185 190
 Asp Asn Ile Phe Val Ile Glu Arg Glu Gly Leu Leu Tyr Tyr Asn Arg
 195 200 205
 Ala Leu Asp Arg Glu Thr Arg Ser Thr His Asn Leu Gln Val Ala Ala
 210 215 220
 Leu Asp Ala Asn Gly Ile Ile Val Glu Gly Pro Val Pro Ile Thr Ile
 225 230 235 240
 Glu Val Lys Asp Ile Asn Asp Asn Arg Pro Thr Phe Leu Gln Ser Lys
 245 250 255
 Tyr Glu Gly Ser Val Arg Gln Asn Ser Arg Pro Gly Lys Pro Phe Leu
 260 265 270
 Tyr Val Asn Ala Thr Asp Leu Asp Asp Pro Ala Thr Pro Asn Gly Gln
 275 280 285
 Leu Tyr Tyr Gln Ile Val Ile Gln Leu Pro Met Ile Asn Asn Val Met
 290 295 300
 Tyr Phe Gln Ile Asn Asn Lys Thr Gly Ala Ile Ser Leu Thr Arg Glu
 305 310 315 320
 Gly Ser Gln Glu Leu Asn Pro Ala Lys Asn Pro Ser Tyr Asn Leu Val
 325 330 335
 Ile Ser Val Lys Asp Met Gly Gly Gln Ser Glu Asn Ser Phe Ser Asp
 340 345 350
 Thr Thr Ser Val Asp Ile Ile Val Thr Glu Asn Ile Trp Lys Ala Pro
 355 360 365
 Lys Pro Val Glu Met Val Glu Asn Ser Thr Asp Pro His Pro Ile Lys
 370 375 380
 Ile Thr Gln Val Arg Trp Asn Asp Pro Gly Ala Gln Tyr Ser Leu Val
 385 390 395 400
 Asp Lys Glu Lys Leu Pro Arg Phe Pro Phe Ser Ile Asp Gln Glu Gly
 405 410 415
 Asp Ile Tyr Val Thr Gln Pro Leu Asp Arg Glu Glu Lys Asp Ala Tyr
 420 425 430
 Val Phe Tyr Ala Val Ala Lys Asp Glu Tyr Gly Lys Pro Leu Ser Tyr
 435 440 445
 Pro Leu Glu Ile His Val Lys Val Lys Asp Ile Asn Asp Asn Pro Pro
 450 455 460
 Thr Cys Pro Ser Pro Val Thr Val Phe Glu Val Gln Glu Asn Glu Arg
 465 470 475 480
 Leu Gly Asn Ser Ile Gly Thr Leu Thr Ala His Asp Arg Asp Glu Glu
 485 490 495
 Asn Thr Ala Asn Ser Phe Leu Asn Tyr Arg Ile Val Glu Gln Thr Pro
 500 505 510
 Lys Leu Pro Met Asp Gly Leu Phe Leu Ile Gln Thr Tyr Ala Gly Met
 515 520 525
 Leu Gln Leu Ala Lys Gln Ser Leu Lys Lys Gln Asp Thr Pro Gln Tyr
 530 535 540
 Asn Leu Thr Ile Glu Val Ser Asp Lys Asp Phe Lys Thr Leu Cys Phe
 545 550 555 560
 Val Gln Ile Asn Val Ile Asp Ile Asn Asp Gln Ile Pro Ile Phe Glu
 565 570 575
 Lys Ser Asp Tyr Gly Asn Leu Thr Leu Ala Glu Asp Thr Asn Ile Gly


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      580              585              590
Ser Thr Ile Leu Thr Ile Gln Ala Thr Asp Ala Asp Glu Pro Phe Thr
      595              600              605
Gly Ser Ser Lys Ile Leu Tyr His Ile Ile Lys Gly Asp Ser Glu Gly
      610              615              620
Arg Leu Gly Val Asp Thr Asp Pro His Thr Asn Thr Gly Tyr Val Ile
      625              630              635              640
Ile Lys Lys Pro Leu Asp Phe Glu Thr Ala Ala Val Ser Asn Ile Val
      645              650              655
Phe Lys Ala Glu Asn Pro Glu Pro Leu Val Phe Gly Val Lys Tyr Asn
      660              665              670
Ala Ser Ser Phe Ala Lys Phe Thr Leu Ile Val Thr Asp Val Asn Glu
      675              680              685
Ala Pro Gln Phe Ser Gln His Val Phe Gln Ala Lys Val Ser Glu Asp
      690              695              700
Val Ala Ile Gly Thr Lys Val Gly Asn Val Thr Ala Lys Asp Pro Glu
      705              710              715              720
Gly Leu Asp Ile Ser Tyr Ser Leu Arg Gly Asp Thr Arg Gly Trp Leu
      725              730              735
Lys Ile Asp His Val Thr Gly Glu Ile Phe Ser Val Ala Pro Leu Asp
      740              745              750
Arg Glu Ala Gly Ser Pro Tyr Arg Val Gln Val Val Ala Thr Glu Val
      755              760              765
Gly Gly Ser Ser Leu Ser Ser Val Ser Glu Phe His Leu Ile Leu Met
      770              775              780
Asp Val Asn Asp Asn Pro Arg Leu Ala Lys Asp Tyr Thr Gly Leu
      785              790              795              800
Phe Phe Cys His Pro Leu Ser Ala Pro Gly Ser Leu Ile Phe Glu Ala
      805              810              815
Thr Asp Asp Asp Gln His Leu Phe Arg Gly Pro His Phe Thr Phe Ser
      820              825              830
Leu Gly Ser Gly Ser Leu Gln Asn Asp Trp Glu Val Ser Lys Ile Asn
      835              840              845
Gly Thr His Ala Arg Leu Ser Thr Arg His Thr Asp Phe Glu Glu Arg
      850              855              860
Ala Tyr Val Val Leu Ile Arg Ile Asn Asp Gly Gly Arg Pro Pro Leu
      865              870              875              880
Glu Gly Ile Val Ser Leu Pro Val Thr Phe Cys Ser Cys Val Glu Gly
      885              890              895
Ser Cys Phe Arg Pro Ala Gly His Gln Thr Gly Ile Pro Thr Val Gly
      900              905              910
Met Ala Val Gly Ile Leu Leu Thr Thr Leu Leu Val Ile Gly Ile Ile
      915              920              925
Leu Ala Val Val Phe Ile Arg Ile Lys Lys Asp Lys Gly Lys Asp Asn
      930              935              940
Val Glu Ser Ala Gln Ala Ser Glu Val Lys Pro Leu Arg Ser
      945              950              955

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<210> 1088

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 1088

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33

<210> 1089

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 1089

gcgatgcctc gagttatttg ttcccgatct ggc

33

<210> 1090

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

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<210> 1091

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<223> Primer

<400> 1091

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37

<210> 1092

<211> 2864

<212> DNA

<213> Homo sapiens

<400> 1092

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actgcgacta gtggctctac agtagctgca gctgatacca ctgaaactaa tttccctgaa 180
actgctagca ccacagcaaa tacaccttct ttcccaacag ctacttcacc tgcctcccc 240
ataattagta cacatagtct ctcacaaatt cctacacctg ctccccccat aattagtaca 300
catagttcct ccacaattcc tatacctact gctgcagaca gtgagtcaac cacaatgta 360
aattcattag ctacctctga cataatcacc gcttcattct caaatgatgg attaatacaca 420
atgggttcct ctgaaacaca aagtaacaat gaaatgtccc ccaccacaga agacaatcaa 480
tcacagggc ctccactgg caccgcttta ttggagacca gcaccctaaa cagcacagg 540

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cccagcaatc cttgccaaaga tgatccctgt gcagataatt cgttatgtgt taagctgcat 600
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ggaaagggtat tccctgggaa gatttcagtg acagtatcag aaacatttga cccagaagag 720
aaacattcca tggcctatca agacttgcat agtgaaatta ctagcttggt taaagatgta 780
tttggcacat ctgtttatgg acagactgta attcttactg taagcacatc tctgtcacca 840
agatctgaaa tgcgtgctga tgacaagttt gttaatgtaa caatagtaac aattttggca 900
gaaaccacaa gtgacaatga gaagactgtg actgagaaaa ttaataaagc aattagaagt 960
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cctaaccac agagcccttt ctgctgtgct tccagctcga agtgctcctga tgcctgcaac 1140
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gacatacgca tcaactgtgg aggtccgagg ggatgagaag ggataccac cacctttcaa 2040
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gagagattct ggcaaccttt gaacagccca gagcttgcaa cctagcctca cccaagaaga 2160
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tctaattgct tgtctctta aaagtatttt tattgttat tattatttgt tcttgactgt 2820
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<210> 1093

<211> 512

<212> PRT

<213> Homo sapiens

<400> 1093

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      20              25              30
Thr Ala Thr Ser Gly Pro Thr Val Ala Ala Ala Asp Thr Thr Glu Thr
      35              40              45
Asn Phe Pro Glu Thr Ala Ser Thr Thr Ala Asn Thr Pro Ser Phe Pro
      50              55              60

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Thr	Ala	Thr	Ser	Pro	Ala	Pro	Pro	Ile	Ile	Ser	Thr	His	Ser	Ser	Ser
65					70					75					80
Thr	Ile	Pro	Thr	Pro	Ala	Pro	Pro	Ile	Ile	Ser	Thr	His	Ser	Ser	Ser
				85						90					95
Thr	Ile	Pro	Ile	Pro	Thr	Ala	Ala	Asp	Ser	Glu	Ser	Thr	Thr	Asn	Val
			100					105						110	
Asn	Ser	Leu	Ala	Thr	Ser	Asp	Ile	Ile	Thr	Ala	Ser	Ser	Pro	Asn	Asp
		115					120					125			
Gly	Leu	Ile	Thr	Met	Val	Pro	Ser	Glu	Thr	Gln	Ser	Asn	Asn	Glu	Met
	130					135						140			
Ser	Pro	Thr	Thr	Glu	Asp	Asn	Gln	Ser	Ser	Gly	Pro	Pro	Thr	Gly	Thr
145					150					155					160
Ala	Leu	Leu	Glu	Thr	Ser	Thr	Leu	Asn	Ser	Thr	Gly	Pro	Ser	Asn	Pro
				165					170					175	
Cys	Gln	Asp	Asp	Pro	Cys	Ala	Asp	Asn	Ser	Leu	Cys	Val	Lys	Leu	His
			180					185					190		
Asn	Thr	Ser	Phe	Cys	Leu	Cys	Leu	Glu	Gly	Tyr	Tyr	Tyr	Asn	Ser	Ser
		195					200					205			
Thr	Cys	Lys	Lys	Gly	Lys	Val	Phe	Pro	Gly	Lys	Ile	Ser	Val	Thr	Val
	210					215					220				
Ser	Glu	Thr	Phe	Asp	Pro	Glu	Glu	Lys	His	Ser	Met	Ala	Tyr	Gln	Asp
225					230					235					240
Leu	His	Ser	Glu	Ile	Thr	Ser	Leu	Phe	Lys	Asp	Val	Phe	Gly	Thr	Ser
				245					250					255	
Val	Tyr	Gly	Gln	Thr	Val	Ile	Leu	Thr	Val	Ser	Thr	Ser	Leu	Ser	Pro
			260					265					270		
Arg	Ser	Glu	Met	Arg	Ala	Asp	Asp	Lys	Phe	Val	Asn	Val	Thr	Ile	Val
		275					280					285			
Thr	Ile	Leu	Ala	Glu	Thr	Thr	Ser	Asp	Asn	Glu	Lys	Thr	Val	Thr	Glu
	290					295					300				
Lys	Ile	Asn	Lys	Ala	Ile	Arg	Ser	Ser	Ser	Ser	Asn	Phe	Leu	Asn	Tyr
305					310					315					320
Asp	Leu	Thr	Leu	Arg	Cys	Asp	Tyr	Tyr	Gly	Cys	Asn	Gln	Thr	Ala	Asp
				325					330					335	
Asp	Cys	Leu	Asn	Gly	Leu	Ala	Cys	Asp	Cys	Lys	Ser	Asp	Leu	Gln	Arg
			340					345					350		
Pro	Asn	Pro	Gln	Ser	Pro	Phe	Cys	Val	Ala	Ser	Ser	Leu	Lys	Cys	Pro
		355					360					365			
Asp	Ala	Cys	Asn	Ala	Gln	His	Lys	Gln	Cys	Leu	Ile	Lys	Lys	Ser	Gly
	370					375					380				
Gly	Ala	Pro	Glu	Cys	Ala	Cys	Val	Pro	Gly	Tyr	Gln	Glu	Asp	Ala	Asn
385					390					395					400
Gly	Asn	Cys	Gln	Lys	Cys	Ala	Phe	Gly	Tyr	Ser	Gly	Leu	Asp	Cys	Lys
				405					410					415	
Asp	Lys	Phe	Gln	Leu	Ile	Leu	Thr	Ile	Val	Gly	Thr	Ile	Ala	Gly	Ile
			420					425					430		
Val	Ile	Leu	Ser	Met	Ile	Ile	Ala	Leu	Ile	Val	Thr	Ala	Arg	Ser	Asn
		435					440					445			
Asn	Lys	Thr	Lys	His	Ile	Glu	Glu	Glu	Asn	Leu	Ile	Asp	Glu	Asp	Phe
	450					455					460				
Gln	Asn	Leu	Lys	Leu	Arg	Ser	Thr	Gly	Phe	Thr	Asn	Leu	Gly	Ala	Glu
465					470					475					480
Gly	Ser	Val	Phe	Pro	Lys	Val	Arg	Ile	Thr	Ala	Ser	Arg	Asp	Ser	Gln
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Met Gln Asn Pro Tyr Ser Arg His Ser Ser Met Pro Arg Pro Asp Tyr
 500 505 510

<210> 1094
 <211> 6410
 <212> DNA
 <213> Homo sapiens

<400> 1094
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 gatTTTaaga ggaagaaga catctgaacc caacaccacc ctaaaccaca ggctgcaggg 180
 ttggcatgct ccgtgcaaga ccagaggcac tgatgctcct gggagctcct ctgactggat 240
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<210> 1095

<211> 1548

<212> PRT

<213> Homo sapiens

<400> 1095

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 20        25        30
Trp Glu Val Gln Arg Tyr Asp Gly Trp Phe Asn Asn Leu Arg His His
 35        40        45
Glu Arg Gly Ala Val Gly Cys Arg Leu Gln Arg Arg Val Pro Ala Asn
 50        55        60
Tyr Ala Asp Gly Val Tyr Gln Ala Leu Glu Glu Pro Gln Leu Pro Asn
 65        70        75        80
Pro Arg Arg Leu Ser Asn Ala Ala Thr Arg Gly Ile Ala Gly Leu Pro
 85        90        95
Ser Leu His Asn Arg Thr Val Leu Gly Val Phe Phe Gly Tyr His Val
 100       105       110
Leu Ser Asp Val Val Ser Val Glu Thr Pro Gly Cys Pro Ala Glu Phe
 115       120       125
Leu Asn Ile Arg Ile Pro Pro Gly Asp Pro Val Phe Asp Pro Asp Gln
 130       135       140
Arg Gly Asp Val Val Leu Pro Phe Gln Arg Ser Arg Trp Asp Pro Glu
 145       150       155       160
Thr Gly Arg Ser Pro Ser Asn Pro Arg Asp Leu Ala Asn Gln Val Thr
 165       170       175
Gly Trp Leu Asp Gly Ser Ala Ile Tyr Gly Ser Ser His Ser Trp Ser
 180       185       190
Asp Ala Leu Arg Ser Phe Ser Gly Gly Gln Leu Ala Ser Gly Pro Asp
 195       200       205
Pro Ala Phe Pro Arg Asp Ser Gln Asn Pro Leu Leu Met Trp Ala Ala
 210       215       220
Pro Asp Pro Ala Thr Gly Gln Asn Gly Pro Arg Gly Leu Tyr Ala Phe
 225       230       235       240
Gly Ala Glu Arg Gly Asn Arg Glu Pro Phe Leu Gln Ala Leu Gly Leu
 245       250       255
Leu Trp Phe Arg Tyr His Asn Leu Trp Ala Gln Arg Leu Ala Arg Gln
 260       265       270
His Pro Asp Trp Glu Asp Glu Glu Leu Phe Gln His Ala Arg Lys Arg
 275       280       285
Val Ile Ala Thr Tyr Gln Asn Ile Ala Val Tyr Glu Trp Leu Pro Ser
 290       295       300

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Phe	Leu	Gln	Lys	Thr	Leu	Pro	Glu	Tyr	Thr	Gly	Tyr	Arg	Pro	Phe	Leu	305	310	315	320
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Ser	Thr	Met	Val	Pro	Pro	Gly	Val	Tyr	Met	Arg	Asn	Ala	Ser	Cys	His	340	345	350	
Phe	Arg	Lys	Val	Leu	Asn	Lys	Gly	Phe	Gln	Ser	Ser	Gln	Ala	Leu	Arg	355	360	365	
Val	Cys	Asn	Asn	Tyr	Trp	Ile	Arg	Glu	Asn	Pro	Asn	Leu	Asn	Ser	Thr	370	375	380	
Gln	Glu	Val	Asn	Glu	Leu	Leu	Leu	Gly	Met	Ala	Ser	Gln	Ile	Ser	Glu	385	390	395	400
Leu	Glu	Asp	Asn	Ile	Val	Val	Glu	Asp	Leu	Arg	Asp	Tyr	Trp	Pro	Gly	405	410	415	
Pro	Gly	Lys	Phe	Ser	Arg	Thr	Asp	Tyr	Val	Ala	Ser	Ser	Ile	Gln	Arg	420	425	430	
Gly	Arg	Asp	Met	Gly	Leu	Pro	Ser	Tyr	Ser	Gln	Ala	Leu	Leu	Ala	Phe	435	440	445	
Gly	Leu	Asp	Ile	Pro	Arg	Asn	Trp	Ser	Asp	Leu	Asn	Pro	Asn	Val	Asp	450	455	460	
Pro	Gln	Val	Leu	Glu	Ala	Thr	Ala	Ala	Leu	Tyr	Asn	Gln	Asp	Leu	Ser	465	470	475	480
Gln	Leu	Glu	Leu	Leu	Leu	Gly	Gly	Leu	Leu	Glu	Ser	His	Gly	Asp	Pro	485	490	495	
Gly	Pro	Leu	Phe	Ser	Ala	Ile	Val	Leu	Asp	Gln	Phe	Val	Arg	Leu	Arg	500	505	510	
Asp	Gly	Asp	Arg	Tyr	Trp	Phe	Glu	Asn	Thr	Arg	Asn	Gly	Leu	Phe	Ser	515	520	525	
Lys	Lys	Glu	Ile	Glu	Asp	Ile	Arg	Asn	Thr	Thr	Leu	Arg	Asp	Val	Leu	530	535	540	
Val	Ala	Val	Ile	Asn	Ile	Asp	Pro	Ser	Ala	Leu	Gln	Pro	Asn	Val	Phe	545	550	555	560
Val	Trp	His	Lys	Gly	Ala	Pro	Cys	Pro	Gln	Pro	Lys	Gln	Leu	Thr	Thr	565	570	575	
Asp	Gly	Leu	Pro	Gln	Cys	Ala	Pro	Leu	Thr	Val	Leu	Asp	Phe	Phe	Glu	580	585	590	
Gly	Ser	Ser	Pro	Gly	Phe	Ala	Ile	Thr	Ile	Ile	Ala	Leu	Cys	Cys	Leu	595	600	605	
Pro	Leu	Val	Ser	Leu	Leu	Leu	Ser	Gly	Val	Val	Ala	Tyr	Phe	Arg	Gly	610	615	620	
Arg	Glu	His	Lys	Lys	Leu	Gln	Lys	Lys	Leu	Lys	Glu	Ser	Val	Lys	Lys	625	630	635	640
Glu	Ala	Ala	Lys	Asp	Gly	Val	Pro	Ala	Met	Glu	Trp	Pro	Gly	Pro	Lys	645	650	655	
Glu	Arg	Ser	Ser	Pro	Ile	Ile	Ile	Gln	Leu	Leu	Ser	Asp	Arg	Cys	Leu	660	665	670	
Gln	Val	Leu	Asn	Arg	His	Leu	Thr	Val	Leu	Arg	Val	Val	Gln	Leu	Gln	675	680	685	
Pro	Leu	Gln	Gln	Val	Asn	Leu	Ile	Leu	Ser	Asn	Asn	Arg	Gly	Cys	Arg	690	695	700	
Thr	Leu	Leu	Leu	Lys	Ile	Pro	Lys	Glu	Tyr	Asp	Leu	Val	Leu	Leu	Phe	705	710	715	720
Ser	Ser	Glu	Glu	Glu	Arg	Gly	Ala	Phe	Val	Gln	Gln	Leu	Trp	Asp	Phe	725	730	735	

Cys Val Arg Trp Ala Leu Gly Leu His Val Ala Glu Met Ser Glu Lys
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 Glu Leu Phe Arg Lys Ala Val Thr Lys Gln Gln Arg Glu Arg Ile Leu
 755 760 765
 Glu Ile Phe Phe Arg His Leu Phe Ala Gln Val Leu Asp Ile Asn Gln
 770 775 780
 Ala Asp Ala Gly Thr Leu Pro Leu Asp Ser Ser Gln Lys Val Arg Glu
 785 790 795 800
 Ala Leu Thr Cys Glu Leu Ser Arg Ala Glu Phe Ala Glu Ser Leu Gly
 805 810 815
 Leu Lys Pro Gln Asp Met Phe Val Glu Ser Met Phe Ser Leu Ala Asp
 820 825 830
 Lys Asp Gly Asn Gly Tyr Leu Ser Phe Arg Glu Phe Leu Asp Ile Leu
 835 840 845
 Val Val Phe Met Lys Gly Ser Pro Glu Asp Lys Ser Arg Leu Met Phe
 850 855 860
 Thr Met Tyr Asp Leu Asp Glu Asn Gly Phe Leu Ser Lys Asp Glu Phe
 865 870 875 880
 Phe Thr Met Met Arg Ser Phe Ile Glu Ile Ser Asn Asn Cys Leu Ser
 885 890 895
 Lys Ala Gln Leu Ala Glu Val Val Glu Ser Met Phe Arg Glu Ser Gly
 900 905 910
 Phe Gln Asp Lys Glu Glu Leu Thr Trp Glu Asp Phe His Phe Met Leu
 915 920 925
 Arg Asp His Asp Ser Glu Leu Arg Phe Thr Gln Leu Cys Val Lys Gly
 930 935 940
 Gly Gly Gly Gly Gly Asn Gly Ile Arg Asp Ile Phe Lys Gln Asn Ile
 945 950 955 960
 Ser Cys Arg Val Ser Phe Ile Thr Arg Thr Pro Gly Glu Arg Ser His
 965 970 975
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<210> 1099

<211> 1987

<212> DNA

<213> Homo sapiens

<400> 1099

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<213> Homo sapiens

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<212> PRT
<213> Homo sapiens

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Gly Ala Ala Ala Lys Ser Gln Val Ile Ser Asn Ala Lys Asn Thr Val
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Gln Gly Phe Lys Arg Phe His Gly Arg Ala Phe Ser Asp Pro Phe Val
      65              70              75              80

Glu Ala Glu Lys Ser Asn Leu Ala Tyr Asp Ile Val Gln Leu Pro Thr
      85              90              95

Gly Leu Thr Gly Ile Lys Val Thr Tyr Met Glu Glu Glu Arg Asn Phe
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Thr Thr Glu Gln Val Thr Ala Met Leu Leu Ser Lys Leu Lys Glu Thr
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Ala Glu Ser Val Leu Lys Lys Pro Val Val Asp Cys Val Val Ser Val
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Pro Cys Phe Tyr Thr Asp Ala Glu Arg Arg Ser Val Met Asp Ala Thr
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Gln Ile Ala Gly Leu Asn Cys Leu Arg Leu Met Asn Glu Thr Thr Ala
      165             170             175

Val Ala Leu Ala Tyr Gly Ile Tyr Lys Gln Asp Leu Pro Ala Leu Glu
      180             185             190

Glu Lys Pro Arg Asn Val Val Phe Val Asp Met Gly His Ser Ala Tyr
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Gln Val Ser Val Cys Ala Phe Asn Arg Gly Lys Leu Lys Val Leu Ala
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Ser	Thr	Asn	Glu	Ala	Met	Glu	Trp	Met	Asn	Asn	Lys	Leu	Asn	Leu	Gln	
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Lys Leu Pro Glu Met Asp Ile Asp
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<212> DNA
<213> Homo sapiens

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<212> DNA
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<211> 1917
<212> DNA
<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 1106

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 <213> Homo sapiens

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<213> Homo sapiens

<400> 1109

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Glu Lys Asn Lys Tyr Asp Ala Ser Ala Ile Asp Phe Ser Arg Cys Asp
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Val Phe Gly Pro Leu Gly Asp Gln Leu His Ala Gln Leu Arg Asp Leu
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Ser Pro Tyr His Pro Gly Ser Cys Gly Ala Gly Ala Pro Ser Pro Gly
 180 185 190

Ser Ser Asp Val Ser Thr Ala Gly Thr Gly Ala Ser Arg Ser Ser His
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Ser Ser Asp Ser Gly Gly Ser Asp Val Asp Leu Asp Pro Thr Asp Gly
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Lys Leu Phe Pro Ser Asp Gly Phe Arg Asp Cys Lys Lys Gly Asp Pro
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Tyr Trp Asp Cys Leu Glu Gly Lys Lys Ser Lys His Ala Pro Arg Gly
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Ile Ile Glu Leu Lys His Lys Ala Arg Glu Lys Pro Tyr Asp Ser Lys
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Pro Glu Phe Ser Met Gln Gly Leu Lys Ala Gly Val Ile Ala Val Ile
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<210> 1112

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<212> DNA

<213> Homo sapiens

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 Val Gln Asn Gly Leu Leu Gly Cys Tyr Pro Asp Arg Phe Gly Thr Cys
 850 855 860
 Gln Gly Ser Gly Asp Pro His Tyr Val Ser Phe Asp Gly Arg Arg Phe
 865 870 875 880
 Asp Phe Met Gly Thr Cys Thr Tyr Leu Leu Val Gly Ser Cys Gly Gln
 885 890 895
 Asn Ala Ala Leu Pro Ala Phe Arg Val Leu Val Glu Asn Glu His Arg
 900 905 910
 Gly Ser Gln Thr Val Ser Tyr Thr Arg Ala Val Arg Val Glu Ala Arg
 915 920 925
 Gly Val Lys Val Ala Val Arg Arg Glu Tyr Pro Gly Gln Val Leu Val
 930 935 940
 Asp Asp Val Leu Gln Tyr Leu Pro Phe Gln Ala Ala Asp Gly Gln Val
 945 950 955 960
 Gln Val Phe Arg Gln Gly Arg Asp Ala Val Val Arg Thr Asp Phe Gly
 965 970 975
 Leu Thr Val Thr Tyr Asp Trp Asn Ala Arg Val Thr Ala Lys Val Pro
 980 985 990
 Ser Ser Tyr Ala Glu Ala Leu Cys Gly Leu Cys Gly Asn Phe Asn Gly
 995 1000 1005
 Asp Pro Ala Asp Asp Leu Ala Leu Arg Gly Gly Gly Gln Ala Ala Asn
 1010 1015 1020
 Ala Leu Ala Phe Gly Asn Ser Trp Gln Glu Glu Thr Arg Pro Gly Cys
 1025 1030 1035 1040
 Gly Ala Thr Glu Pro Gly Asp Cys Pro Lys Leu Asp Ser Leu Val Ala
 1045 1050 1055
 Gln Gln Leu Gln Ser Lys Asn Glu Cys Gly Ile Leu Ala Asp Pro Lys
 1060 1065 1070
 Gly Pro Phe Arg Glu Cys His Ser Lys Leu Asp Pro Gln Gly Ala Val
 1075 1080 1085
 Arg Asp Cys Val Tyr Asp Arg Cys Leu Leu Pro Gly Gln Ser Gly Pro
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 Leu Cys Asp Ala Leu Ala Thr Tyr Ala Ala Ala Cys Gln Ala Ala Gly
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 Ala Thr Val His Pro Trp Arg Ser Glu Glu Leu Cys Pro Leu Ser Cys
 1125 1130 1135
 Pro Pro His Ser His Tyr Glu Ala Cys Ser Tyr Gly Cys Pro Leu Ser
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 Cys Gly Asp Leu Pro Val Pro Gly Gly Cys Gly Ser Glu Cys His Glu
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Asp Gly Arg Arg Phe Asp Phe Met Gly Thr Cys Val Tyr Val Leu Ala
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 Gln Thr Cys Gly Thr Arg Pro Gly Leu His Arg Phe Ala Val Leu Gln
 2485 2490 2495
 Glu Asn Val Ala Trp Gly Asn Gly Arg Val Ser Val Thr Arg Val Ile
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 Thr Val Gln Val Ala Asn Phe Thr Leu Arg Leu Glu Gln Arg Gln Trp
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 Lys Val Thr Val Asn Gly Val Asp Met Lys Leu Pro Val Val Leu Ala
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 Asn Gly Gln Ile Arg Ala Ser Gln His Gly Ser Asp Val Val Ile Glu
 2545 2550 2555 2560
 Thr Asp Phe Gly Leu Arg Val Ala Tyr Asp Leu Val Tyr Tyr Val Arg
 2565 2570 2575
 Val Thr Val Pro Gly Asn Tyr Tyr Gln Leu Met Cys Gly Leu Cys Gly
 2580 2585 2590
 Asn Tyr Asn Gly Asp Pro Lys Asp Asp Phe Gln Lys Pro Asn Gly Ser
 2595 2600 2605
 Gln Ala Gly Asn Ala Asn Glu Phe Gly Asn Ser Trp Glu Glu Val Val
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 Pro Asp Ser Pro Cys Leu Pro Pro Pro Thr Cys Pro Pro Gly Ser Glu
 2625 2630 2635 2640
 Gly Cys Ile Pro Ser Glu Glu Cys Pro Pro Glu Leu Glu Lys Lys Tyr
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 Gln Lys Glu Glu Phe Cys Gly Leu Leu Ser Ser Pro Thr Gly Pro Leu
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 Ser Ser Cys His Lys Leu Val Asp Pro Gln Gly Pro Leu Lys Asp Cys
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 Ile Phe Asp Leu Cys Leu Gly Gly Gly Asn Leu Ser Ile Leu Cys Ser
 2690 2695 2700
 Asn Ile His Ala Tyr Val Ser Ala Cys Gln Ala Ala Gly Gly His Val
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 Glu Pro Trp Arg Asn Glu Thr Phe Cys Pro Met Glu Cys Pro Gln Asn
 2725 2730 2735
 Ser His Tyr Glu Leu Cys Ala Asp Thr Cys Ser Leu Gly Cys Ser Ala
 2740 2745 2750
 Leu Ser Ala Pro Leu Gln Cys Pro Asp Gly Cys Ala Glu Gly Cys Gln
 2755 2760 2765
 Cys Asp Ser Gly Phe Leu Tyr Asn Gly Gln Ala Cys Val Pro Ile Gln
 2770 2775 2780
 Gln Cys Gly Cys Tyr His Asn Gly Ala Tyr Tyr Glu Pro Glu Gln Thr
 2785 2790 2795 2800
 Val Leu Ile Asp Asn Cys Arg Gln Gln Cys Thr Cys His Ala Gly Lys
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 Val Val Val Cys Gln Glu His Ser Cys Lys Pro Gly Gln Val Cys Gln
 2820 2825 2830
 Pro Ser Gly Gly Ile Leu Ser Cys Val Thr Lys Asp Pro Cys His Gly
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 Val Thr Cys Arg Pro Gln Glu Thr Cys Lys Glu Gln Gly Gly Gln Gly
 2850 2855 2860
 Val Cys Leu Pro Asn Tyr Glu Ala Thr Cys Trp Leu Trp Gly Asp Pro
 2865 2870 2875 2880
 His Tyr His Ser Phe Asp Gly Arg Lys Phe Asp Phe Gln Gly Thr Cys
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Glu	Thr	Asp	Phe	Gly	Leu	Arg	Val	Ala	Tyr	Asp	Leu	Val	Tyr	Val	
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Arg	Val	Thr	Val	Pro	Gly	Asn	Tyr	Tyr	Gln	Leu	Met	Cys	Gly	Leu	Cys
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Gly	Asn	Tyr	Asn	Gly	Asp	Pro	Lys	Asp	Asp	Phe	Gln	Lys	Pro	Asn	Gly
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Ser	Gln	Ala	Gly	Asn	Ala	Asn	Glu	Phe	Gly	Asn	Ser	Trp	Glu	Glu	Val
	3810					3815					3820				
Val	Pro	Asp	Ser	Pro	Cys	Leu	Pro	Pro	Pro	Thr	Cys	Pro	Pro	Gly	Ser
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Glu	Gly	Cys	Ile	Pro	Ser	Glu	Glu	Cys	Pro	Pro	Glu	Leu	Glu	Lys	Lys
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Tyr	Gln	Lys	Glu	Glu	Phe	Cys	Gly	Leu	Leu	Ser	Ser	Pro	Thr	Gly	Pro
			3860					3865					3870		
Leu	Ser	Ser	Cys	His	Lys	Leu	Val	Asp	Pro	Gln	Gly	Pro	Leu	Lys	Asp
	3875						3880					3885			
Cys	Ile	Phe	Asp	Leu	Cys	Leu	Gly	Gly	Gly	Asn	Leu	Ser	Ile	Leu	Cys
3890						3895					3900				
Ser	Asn	Ile	His	Ala	Tyr	Val	Ser	Ala	Cys	Gln	Ala	Ala	Gly	Gly	His
3905					3910					3915					3920
Val	Glu	Pro	Trp	Arg	Asn	Glu	Thr	Phe	Cys	Pro	Met	Glu	Cys	Pro	Gln
				3925					3930					3935	
Asn	Ser	His	Tyr	Glu	Leu	Cys	Ala	Asp	Thr	Cys	Ser	Leu	Gly	Cys	Ser
			3940					3945					3950		
Ala	Leu	Ser	Ala	Pro	Leu	Gln	Cys	Pro	Asp	Gly	Cys	Ala	Glu	Gly	Cys
		3955					3960					3965			
Gln	Cys	Asp	Ser	Gly	Phe	Leu	Tyr	Asn	Gly	Gln	Ala	Cys	Val	Pro	Ile
	3970					3975					3980				
Gln	Gln	Cys	Gly	Cys	Tyr	His	Asn	Gly	Val	Tyr	Tyr	Glu	Pro	Glu	Gln
3985					3990					3995					4000
Thr	Val	Leu	Ile	Asp	Asn	Cys	Arg	Gln	Gln	Cys	Thr	Cys	His	Val	Gly
			4005						4010					4015	
Lys	Val	Val	Val	Cys	Gln	Glu	His	Ser	Cys	Lys	Pro	Gly	Gln	Val	Cys
		4020						4025					4030		
Gln	Pro	Ser	Gly	Gly	Ile	Leu	Ser	Cys	Val	Asn	Lys	Asp	Pro	Cys	His
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Gly	Val	Thr	Cys	Arg	Pro	Gln	Glu	Thr	Cys	Lys	Glu	Gln	Gly	Gly	Gln
	4050					4055					4060				
Gly	Val	Cys	Leu	Pro	Asn	Tyr	Glu	Ala	Thr	Cys	Trp	Leu	Trp	Gly	Asp
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Pro	His	Tyr	His	Ser	Phe	Asp	Gly	Arg	Lys	Phe	Asp	Phe	Gln	Gly	Thr
			4085						4090					4095	
Cys	Asn	Tyr	Val	Leu	Ala	Thr	Thr	Gly	Cys	Pro	Gly	Val	Ser	Thr	Gln
			4100					4105							

Val Ser Tyr Asp Trp Asn Trp Arg Val Asp Val Thr Leu Pro Ser Ser
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 Tyr His Gly Ala Val Cys Gly Leu Cys Gly Asn Met Asp Arg Asn Pro
 4210 4215 4220
 Asn Asn Asp Gln Val Phe Pro Asn Gly Thr Leu Ala Pro Ser Ile Pro
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 Ile Trp Gly Gly Ser Trp Arg Ala Pro Gly Trp Asp Pro Leu Cys Trp
 4245 4250 4255
 Asp Glu Cys Arg Gly Ser Cys Pro Thr Cys Pro Glu Asp Arg Leu Glu
 4260 4265 4270
 Gln Tyr Glu Gly Pro Gly Phe Cys Gly Pro Leu Ala Ser Gly Thr Gly
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 Gly Pro Phe Thr Thr Cys His Ala His Val Pro Pro Glu Ser Phe Phe
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 Lys Gly Cys Val Leu Asp Val Cys Met Gly Gly Gly Asp His Asp Ile
 4305 4310 4315 4320
 Leu Cys Lys Ala Leu Ala Ser Tyr Val Ala Ala Cys Gln Ala Ala Gly
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 Val Val Ile Glu Asp Trp Arg Ala Gln Val Gly Cys Glu Ile Thr Cys
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 Pro Glu Asn Ser His Tyr Glu Val Cys Gly Pro Pro Cys Pro Ala Ser
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 Cys Pro Ser Pro Ala Pro Leu Thr Thr Pro Ala Val Cys Glu Gly Pro
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 Cys Val Glu Gly Cys Gln Cys Asp Ala Gly Phe Val Leu Ser Ala Asp
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 Arg Cys Val Pro Leu Asn Asn Gly Cys Gly Cys Trp Ala Asn Gly Thr
 4405 4410 4415
 Tyr His Glu Ala Gly Ser Glu Phe Trp Ala Asp Gly Thr Cys Ser Gln
 4420 4425 4430
 Trp Cys Arg Cys Gly Pro Gly Gly Gly Ser Leu Val Cys Thr Pro Ala
 4435 4440 4445
 Ser Cys Gly Leu Gly Glu Val Cys Gly Leu Leu Pro Ser Gly Gln His
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 Ser Cys Gln Pro Val Ser Thr Ala Glu Cys Gln Ala Trp Gly Asp Pro
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 His Tyr Val Thr Leu Asp Gly His Arg Phe Asp Phe Gln Gly Thr Cys
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 Glu Tyr Leu Leu Ser Ala Pro Cys His Gly Pro Pro Leu Gly Ala Glu
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 Asn Phe Thr Val Thr Val Ala Asn Glu His Arg Gly Ser Gln Ala Val
 4515 4520 4525
 Ser Tyr Thr Arg Ser Val Thr Leu Gln Ile Tyr Asn His Ser Leu Thr
 4530 4535 4540
 Leu Ser Ala Arg Trp Pro Arg Lys Leu Gln Val Asp Gly Val Phe Val
 4545 4550 4555 4560
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 Ala Asp Val Val Val Thr Thr Thr Ser Gly Leu Ser Leu Ala Phe Asp
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 Gly Asp Ser Phe Val Arg Leu Arg Val Pro Ala Ala Tyr Ala Ala Ser
 4595 4600 4605
 Leu Cys Gly Leu Cys Gly Asn Tyr Asn Gln Asp Pro Ala Asp Asp Leu
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Gln Gly Pro Phe Ala Thr Cys Gln Ala Val Leu Ser Pro Ser Glu Tyr
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 Phe Arg Gln Cys Val Tyr Asp Leu Cys Ala Gln Lys Gly Asp Lys Ala
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 Phe Leu Cys Arg Ser Leu Ala Ala Tyr Thr Ala Ala Cys Gln Ala Ala
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 Gly Val Ala Val Lys Pro Trp Arg Thr Asp Ser Phe Cys Pro Leu His
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 Cys Pro Ala His Ser His Tyr Ser Ile Cys Thr Arg Thr Cys Gln Gly
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 Ser Cys Ala Ala Leu Ser Gly Leu Thr Gly Cys Thr Thr Arg Cys Phe
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 Glu Gly Cys Glu Cys Asp Asp Arg Phe Leu Leu Ser Gln Gly Val Cys
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 Ile Pro Val Gln Asp Cys Gly Cys Thr His Asn Gly Arg Tyr Leu Pro
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 Val Asn Ser Ser Leu Leu Thr Ser Asp Cys Ser Glu Arg Cys Ser Cys
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 Ser Ser Ser Ser Gly Leu Thr Cys Gln Ala Ala Gly Cys Pro Pro Gly
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 Gly Leu Cys Val Leu Ser Val Gly Ala Asn Leu Thr Thr Phe Asp Gly
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 Ala Arg Gly Ala Thr Thr Ser Pro Gly Val Tyr Glu Leu Ser Ser Arg
 5250 5255 5260
 Cys Pro Gly Leu Gln Asn Thr Ile Pro Trp Tyr Arg Val Val Ala Glu
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 Val Gln Ile Cys His Gly Lys Thr Glu Ala Val Gly Gln Val His Ile
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 Phe Phe Gln Asp Gly Met Val Thr Leu Thr Pro Asn Lys Gly Val Trp
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 Val Asn Gly Leu Arg Val Asp Leu Pro Ala Glu Lys Leu Ala Ser Val
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 5345 5350 5355 5360
 Ser Asn Asp His Ala Gly Lys Leu Cys Gly Ala Cys Gly Asn Phe Asp
 5365 5370 5375
 Gly Asp Gln Thr Asn Asp Trp His Asp Ser Gln Glu Lys Pro Ala Met
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 Glu Lys Trp Arg Ala Gln Asp Phe Ser Pro Cys Tyr Gly
 5395 5400 5405

<210> 1117

<211> 806

<212> PRT

<213> Homo sapiens

<400> 1117

Met Ala Ser Gly Ala Asp Ser Lys Gly Asp Asp Leu Ser Thr Ala Ile

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10

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Glu Leu Asp Ala Ile Ala Pro Lys Arg Glu Lys Thr His Gly Glu Val
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 Glu Arg Arg Ile Val Ser Gln Leu Leu Thr Leu Met Asp Gly Leu Lys
 325 330 335
 Gln Arg Ala His Val Ile Val Met Ala Ala Thr Asn Arg Pro Asn Ser
 340 345 350
 Ile Asp Pro Ala Leu Arg Arg Phe Gly Arg Phe Asp Arg Glu Val Asp
 355 360 365
 Ile Gly Ile Pro Asp Ala Thr Gly Arg Leu Glu Ile Leu Gln Ile His
 370 375 380
 Thr Lys Asn Met Lys Leu Ala Asp Asp Val Asp Leu Glu Gln Val Ala
 385 390 395 400
 Asn Glu Thr His Gly His Val Gly Ala Asp Leu Ala Ala Leu Cys Ser
 405 410 415
 Glu Ala Ala Leu Gln Ala Ile Arg Lys Lys Met Asp Leu Ile Asp Leu
 420 425 430
 Glu Asp Glu Thr Ile Asp Ala Glu Val Met Asn Ser Leu Ala Val Thr
 435 440 445
 Met Asp Asp Phe Arg Trp Ala Leu Ser Gln Ser Asn Pro Ser Ala Leu
 450 455 460
 Arg Glu Thr Val Val Glu Val Pro Gln Val Thr Trp Glu Asp Ile Gly
 465 470 475 480
 Gly Leu Glu Asp Val Lys Arg Glu Leu Gln Glu Leu Val Gln Tyr Pro
 485 490 495
 Val Glu His Pro Asp Lys Phe Leu Lys Phe Gly Met Thr Pro Ser Lys
 500 505 510
 Gly Val Leu Phe Tyr Gly Pro Pro Gly Cys Gly Lys Thr Leu Leu Ala
 515 520 525
 Lys Ala Ile Ala Asn Glu Cys Gln Ala Asn Phe Ile Ser Ile Lys Gly
 530 535 540
 Pro Glu Leu Leu Thr Met Trp Phe Gly Glu Ser Glu Ala Asn Val Arg
 545 550 555 560
 Glu Ile Phe Asp Lys Ala Arg Gln Ala Ala Pro Cys Val Leu Phe Phe
 565 570 575
 Asp Glu Leu Asp Ser Ile Ala Lys Ala Arg Gly Gly Asn Ile Gly Asp
 580 585 590

Asn	Glu	Asp	Asn	Ser	Val	Val	Ser	Leu	Ser	Gln	Pro	Lys	Met	Asp	Glu	35	40	45	
Leu	Gln	Leu	Phe	Arg	Gly	Asp	Thr	Val	Leu	Leu	Lys	Gly	Lys	Lys	Arg	50	55	60	
Arg	Glu	Ala	Val	Cys	Ile	Val	Leu	Ser	Asp	Asp	Thr	Cys	Ser	Asp	Glu	65	70	75	80
Lys	Ile	Arg	Met	Asn	Arg	Val	Val	Arg	Asn	Asn	Leu	Arg	Val	Arg	Leu	85	90	95	
Gly	Asp	Val	Ile	Ser	Ile	Gln	Pro	Cys	Pro	Asp	Val	Lys	Tyr	Gly	Lys	100	105	110	
Arg	Ile	His	Val	Leu	Pro	Ile	Asp	Asp	Thr	Val	Glu	Gly	Ile	Thr	Gly	115	120	125	
Asn	Leu	Phe	Glu	Val	Tyr	Leu	Lys	Pro	Tyr	Phe	Leu	Glu	Ala	Tyr	Arg	130	135	140	
Pro	Ile	Arg	Lys	Gly	Asp	Ile	Phe	Leu	Val	Arg	Gly	Gly	Met	Arg	Ala	145	150	155	160
Val	Glu	Phe	Lys	Val	Val	Glu	Thr	Asp	Pro	Ser	Pro	Tyr	Cys	Ile	Val	165	170	175	
Ala	Pro	Asp	Thr	Val	Ile	His	Cys	Glu	Gly	Glu	Pro	Ile	Lys	Arg	Glu	180	185	190	
Asp	Glu	Glu	Glu	Ser	Leu	Asn	Glu	Val	Gly	Tyr	Asp	Asp	Ile	Gly	Gly	195	200	205	
Cys	Arg	Lys	Gln	Leu	Ala	Gln	Ile	Lys	Glu	Met	Val	Glu	Leu	Pro	Leu	210	215	220	
Arg	His	Pro	Ala	Leu	Phe	Lys	Ala	Ile	Gly	Val	Lys	Pro	Pro	Arg	Gly	225	230	235	240
Ile	Leu	Leu	Tyr	Gly	Pro	Pro	Gly	Thr	Gly	Lys	Thr	Leu	Ile	Ala	Arg	245	250	255	
Ala	Val	Ala	Asn	Glu	Thr	Gly	Ala	Phe	Phe	Phe	Leu	Ile	Asn	Gly	Pro	260	265	270	
Glu	Ile	Met	Ser	Lys	Leu	Ala	Gly	Glu	Ser	Glu	Ser	Asn	Leu	Arg	Lys	275	280	285	
Ala	Phe	Glu	Glu	Ala	Glu	Lys	Asn	Ala	Pro	Ala	Ile	Ile	Phe	Ile	Asp	290	295	300	
Glu	Leu	Asp	Ala	Ile	Ala	Pro	Lys	Arg	Glu	Lys	Thr	His	Gly	Glu	Val	305	310	315	320

Asp Gly Met Ser Thr Lys Lys Asn Val Phe Ile Ile Gly Ala Thr Asn
 610 615 620
 Arg Pro Asp Ile Ile Asp Pro Ala Ile Leu Arg Pro Gly Arg Leu Asp
 625 630 635 640
 Gln Leu Ile Tyr Ile Pro Leu Pro Asp Glu Lys Ser Arg Val Ala Ile
 645 650 655
 Leu Lys Ala Asn Leu Arg Lys Ser Pro Val Ala Lys Asp Val Asp Leu
 660 665 670
 Glu Phe Leu Ala Lys Met Thr Asn Gly Phe Ser Gly Ala Asp Leu Thr
 675 680 685
 Glu Ile Cys Gln Arg Ala Cys Lys Leu Ala Ile Arg Glu Ser Ile Glu
 690 695 700
 Ser Glu Ile Arg Arg Glu Arg Glu Arg Gln Thr Asn Pro Ser Ala Met
 705 710 715 720
 Glu Val Glu Glu Asp Asp Pro Val Pro Glu Ile Arg Arg Asp His Phe
 725 730 735
 Glu Glu Ala Met Arg Phe Ala Arg Arg Ser Val Ser Asp Asn Asp Ile
 740 745 750
 Arg Lys Tyr Glu Met Phe Ala Gln Thr Leu Gln Gln Ser Arg Gly Phe
 755 760 765
 Gly Ser Phe Arg Phe Pro Ser Gly Asn Gln Gly Gly Ala Gly Pro Ser
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 Asp Asp Asp Leu Tyr Gly
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<210> 1119

<211> 1341

<212> DNA

<213> Homo sapiens

<400> 1119

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Arg Phe Asn Glu Leu Asn Cys Glu Val Leu Ala Cys Ser Ile Asp Ser		
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Glu Tyr Ala His Leu Gln Trp Thr Leu Gln Asp Arg Lys Lys Gly Gly		
	85	90 95
Leu Gly Thr Met Ala Ile Pro Met Leu Ala Asp Lys Thr Lys Ser Ile		
	100	105 110
Ala Arg Ser Tyr Gly Val Leu Glu Glu Ser Gln Gly Val Ala Tyr Arg		
	115	120 125
Gly Leu Phe Ile Ile Asp Pro His Gly Met Leu Arg Gln Ile Thr Val		
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Asn Asp Met Pro Val Gly Arg Ser Val Glu Glu Val Leu Arg Leu Leu		
	145	150 155 160
Glu Ala Phe Gln Phe Val Glu Lys His Gly Glu Val Cys Pro Ala Asn		
	165	170 175
Trp Lys Lys Gly Ala Pro Thr Met Lys Pro Glu Pro Asn Ala Ser Val		
	180	185 190
Glu Gly Tyr Phe Ser Lys Gln Ser Arg Glu Phe Met Ala Gly Val Ser		
	195	200 205
Ala Cys Ile Lys Tyr Ser Met Phe Thr Phe Asn Phe Leu Phe Trp Leu		
	210	215 220
Cys Gly Ile Leu Ile Leu Ala Leu Ala Ile Trp Val Arg Val Ser Asn		
	225	230 235 240
Asp Ser Gln Ala Ile Phe Gly Ser Glu Asp Val Gly Ser Ser Ser Tyr		
	245	250 255
Val Ala Val Asp Ile Leu Ile Ala Val Gly Ala Ile Ile Met Ile Leu		
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Gly Phe Leu Gly Cys Cys Gly Ala Ile Lys Glu Ser Arg Cys Met Leu		
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Leu Leu Phe Phe Ile Gly Leu Leu Leu Ile Leu Leu Leu Gln Val Ala		
	290	295 300
Thr Gly Ile Leu Gly Ala Val Phe Lys Ser Lys Ser Asp Arg Ile Val		
	305	310 315 320
Asn Glu Thr Leu Tyr Glu Asn Thr Lys Leu Leu Ser Ala Thr Gly Glu		
	325	330 335
Ser Glu Lys Gln Phe Gln Glu Ala Ile Ile Val Phe Gln Glu Glu Phe		

340 345 350
 Lys Cys Cys Gly Leu Val Asn Gly Ala Ala Asp Trp Gly Asn Asn Phe
 355 360 365
 Gln His Tyr Pro Glu Leu Cys Ala Cys Leu Asp Lys Gln Arg Pro Cys
 370 375 380
 Gln Ser Tyr Asn Gly Lys Gln Val Tyr Lys Glu Thr Cys Ile Ser Phe
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 Ile Lys Asp Phe Leu Ala Lys Asn Leu Ile Ile Val Ile Gly Ile Ser
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 <400> 1122
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 Val Arg Val Ser Asn Asp Ser Gln Ala Ile Phe Gly Ser Glu Asp Val
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 Gly Ser Ser Ser Tyr Val Ala Val Asp Ile Leu Ile Ala Val Gly Ala
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 Ile Ile Met Ile Leu Gly Phe Leu Gly Cys Cys Gly Ala Ile Lys Glu
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 Ser Arg Cys Met Leu Leu Leu Phe Phe Ile Gly Leu Leu Leu Ile Leu
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 Leu Leu Gln Val Ala Thr Gly Ile Leu Gly Ala Val Phe Lys Ser Lys
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 Ser Asp Arg Ile Val Asn Glu Thr Leu Tyr Glu Asn Thr Lys Leu Leu
 115 120 125
 Ser Ala Thr Gly Glu Ser Glu Lys Gln Phe Gln Glu Ala Ile Ile Val
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<210> 1126

<211> 194

<212> PRT

<213> Homo sapiens

<400> 1126

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Met Thr Asp Ile Ser His Ser Tyr Glu Asp Leu Gly Leu Leu Leu Lys
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Asp Lys Ile Val Glu Leu Asn Thr Lys Leu Ser Lys Leu Gln Lys Ala
                20                25                30

```

```

Gln Glu Glu Ser Ser Ala Met Met Gln Trp Leu Glu Lys Met Asn Lys
                35                40                45

```

```

Thr Ala Ser Arg Trp Pro Pro Pro Pro Thr Pro Ala Asp Thr Glu Ser
                50                55                60

```

```

Val Lys Leu Gln Val Glu Gln Asn Lys Ser Phe Glu Ala Glu Leu Lys
                65                70                75                80

```

```

Gln Asn Val Asn Lys Val Gln Glu Leu Lys Asp Lys Leu Ser Glu Leu
                85                90                95

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```

Leu Glu Glu Asn Pro Glu Ala Pro Glu Ala Gln Ser Trp Lys Gln Ala
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Leu Ala Glu Met Asp Thr Lys Trp Gln Glu Leu Asn Gln Leu Thr Met
                115                120                125

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Asp Arg Gln Gln Lys Leu Glu Glu Ser Ser Asn Asn Leu Thr Gln Phe
                130                135                140

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Gln Thr Thr Glu Ala Gln Leu Lys Gln Trp Leu Met Glu Lys Glu Leu
                145                150                155                160

```

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Met Val Ser Val Leu Gly Pro Leu Ser Ile Asp Pro Asn Lys Thr Gln
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Gln Lys Ile Thr Ser Met Gly Glu Asp Ile Glu Asn Ser Glu Cys Cys
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Ala Ala

<210> 1127
 <211> 792
 <212> PRT
 <213> Homo sapiens

<400> 1127
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 20 25 30
 Leu Ile Glu Gln Lys Leu Asn Glu Val Lys Met Lys Cys Ala Gln Leu
 35 40 45
 Asn Leu Lys Ala Glu Gln Ser Arg Lys Glu Leu Asp Lys Ala Val Thr
 50 55 60
 Thr Ala Leu Lys Glu Glu Thr Glu Lys Val Ala Ala Val Arg Gln Leu
 65 70 75 80
 Glu Glu Ser Lys Thr Lys Ile Glu Asn Leu Leu Asn Trp Leu Ser Asn
 85 90 95
 Val Glu Glu Asp Ser Glu Gly Val Trp Thr Lys His Thr Gln Pro Met
 100 105 110
 Glu Gln Asn Gly Thr Tyr Leu His Glu Gly Asp Ser Lys Leu Gly Ala
 115 120 125
 Gly Glu Glu Asp Glu Val Asn Gly Asn Leu Leu Glu Thr Asp Ala Glu
 130 135 140
 Gly His Ser Glu Ala Thr Lys Gly Asn Leu Asn Gln Gln Tyr Glu Lys
 145 150 155 160
 Val Lys Ala Gln His Gly Lys Ile Met Ala Gln His Gln Ala Val Leu
 165 170 175
 Leu Ala Thr Gln Ser Ala Gln Val Leu Leu Glu Lys Gln Gly His Tyr
 180 185 190
 Leu Ser Pro Glu Glu Lys Glu Lys Leu Gln Lys Asn Thr Gln Glu Leu
 195 200 205
 Lys Val His Tyr Glu Lys Val Leu Ala Glu Cys Glu Lys Lys Val Lys
 210 215 220
 Leu Thr His Ser Leu Gln Glu Glu Leu Glu Lys Phe Asp Thr Asp Tyr
 225 230 235 240

Ala Met Asn Glu Lys Val Lys Thr Phe Ile Glu Thr Thr Asp Pro Ser
 530 535 540
 Thr Ala Ser Ser Leu Gln Ala Lys Met Lys Asp Leu Ser Ala Arg Phe
 545 550 555 560
 Ser Glu Ala Ser Gln Lys His Lys Glu Lys Leu Ala Lys Met Val Glu
 565 570 575
 Leu Lys Ala Lys Val Glu Gln Phe Glu Lys Leu Ser Asp Lys Leu Gln
 580 585 590
 Thr Phe Leu Glu Thr Gln Ser Gln Ala Leu Thr Glu Val Ala Met Pro
 595 600 605
 Gly Lys Asp Val Pro Glu Leu Ser Gln His Met Gln Glu Ser Thr Ala
 610 615 620
 Lys Phe Leu Glu His Arg Lys Asp Leu Glu Ala Leu His Ser Leu Leu
 625 630 635 640
 Lys Glu Ile Ser Ser His Gly Leu Pro Gly Asp Lys Ala Leu Val Phe
 645 650 655
 Glu Lys Thr Asn Asn Leu Ser Arg Lys Phe Lys Glu Met Glu Asp Thr
 660 665 670
 Ile Gln Glu Lys Lys Asp Ala Leu Ser Ser Cys Gln Glu Gln Leu Ser
 675 680 685
 Ala Phe Gln Thr Leu Ala Gln Ser Leu Lys Thr Trp Ile Lys Glu Thr
 690 695 700
 Thr Lys Gln Val Pro Val Val Lys Pro Ser Leu Gly Thr Glu Asp Leu
 705 710 715 720
 Arg Lys Ser Leu Glu Glu Thr Lys Lys Leu Gln Glu Lys Trp Asn Leu
 725 730 735
 Lys Ala Pro Glu Ile His Lys Ala Asn Asn Ser Gly Val Ser Leu Cys
 740 745 750
 Asn Leu Leu Ser Ala Leu Ile Ser Pro Ala Lys Ala Ile Ala Ala Ala
 755 760 765
 Lys Ser Gly Gly Val Ile Leu Asn Gly Glu Gly Thr Asp Thr Asn Thr
 770 775 780
 Gln Val Ser Trp Gln Ile Lys Val
 785 790

<210> 1128

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1128

Met Val Gln Pro Leu Trp Lys Ala Ala Gly Arg Lys Leu Lys Lys Thr
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Glu Ala Asn Pro Arg Ala Glu Phe Gly Thr Arg Pro Val Ile Leu Ser
 20 25 30

His Ser Leu Glu Ile Thr Ser Val Thr Lys His Lys Tyr Ser Ser Leu
 35 40 45

Glu Cys Leu Asn Val Ala Ile Phe Leu Lys Ala Arg Arg Val Thr Leu
 50 55 60

Trp Tyr Leu Lys Gly Leu Asn Phe Arg Met Gln Asn Lys Leu Pro Phe
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<210> 1129

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1129

Met Tyr Phe Arg Ser Lys Gln Arg Cys Ser Pro Met Ile Met Asp Val
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Lys Ala Pro Ala Val Val Leu Phe Val Phe Lys Gly Tyr Ile Leu Ile
 20 25 30

Val Glu Ala Ser Asn Met Ser Val Ile Ser Ser His Ser Glu Ile Lys
 35 40 45

Arg Leu Ile Leu Val Phe Ile Phe Trp His Phe Lys Phe Tyr Ile Asn
 50 55 60

Gly Cys Arg Trp Arg Leu Ser Pro Thr Asn Ile Phe Lys Trp Ile Phe
 65 70 75 80

Leu Asn Leu Asn Phe Lys
 85

1128
1129
86
PRT
Homo sapiens
1129